STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

					DIVISION OF OIL,				AMENDED REPOR	T					
		AP	PLICATION FO	R PERM	IT TO DRILL			1. WELL NAME and NU	IMBER AFU 64-18-41						
2. TYPE OF	WORK	DRILL NEW WELL (REENTER	P&A WELL	DEEPEN WELL (<u> </u>		3. FIELD OR WILDCAT WILDCAT							
4. TYPE OF	WELL	Ga			nane Well: NO			5. UNIT or COMMUNIT	5. UNIT OF COMMUNITIZATION AGREEMENT NAME ASHLEY FOREST						
6. NAME O	F OPERATOR		VANTAGE EN					7. OPERATOR PHONE	303 386-8600						
8. ADDRES	S OF OPERATO							9. OPERATOR E-MAIL							
	AL LEASE NUMI	BER	ess Drive East, S		nglewood , CO, 80112 NERAL OWNERSHIP			12. SURFACE OWNERS	ran@vantageenerg SHIP	/.com					
(FEDERAL,	, INDIAN, OR ST	T ATE) UTU78210		FED	ERAL 🗓 INDIAN 🤅	STATE (FEE 💭	FEDERAL IND	DIAN 🔵 STATE	FE	E				
13. NAME (OF SURFACE (OWNER (if box 12 =	'fee')	•				14. SURFACE OWNER	PHONE (if box 12	= 'fee')					
15. ADDRE	SS OF SURFA	CE OWNER (if box	12 = 'fee')					16. SURFACE OWNER	E-MAIL (if box 12	= 'fee')					
17. INDIAN	ALLOTTEE OF	R TRIBE NAME			TEND TO COMMINGLE	PRODUCTION F	ROM	19. SLANT							
(if box 12	= 'INDIAN')			YES	IPLE FORMATIONS (Submit Commin	ngling Application) NO 📵	VERTICAL DIR	ECTIONAL (🗓 H	ORIZONT	AL 🔵				
20. LOCA	TION OF WELL			FOOTAGE	s o	TR-QTR	СТІО	TOWNSHIP	RANGE	ME	RIDIAN				
LOCATION	N AT SURFACE		104	FSL 470	FWL	swsw	18	6.0 S	4.0 W		U				
Top of Up	permost Prod	ucing Zone	340) FSL 551	FWL	SWOW	18	6.0 S	4.0 W		U				
At Total [Depth		660	FSL 660	FWL	SNSW	18	6.0 S	4.0 W		U				
21. COUNT		DUCHESNE	,	22. DI	STANCE TO NEAREST	EASE LINE (Fee	t)	23. NUMBER OF ACRE	S IN DRILLING UNI	Т					
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27. ELEVA	TION - GROUN	D LEVEL 7740		28. BY	OND NUMBER	1000288		29. SOURCE OF DRILL WATER RIGHTS APPRO		PPLICABL	.E				
			A P	-	Hole, Casing, and		nation								
String	Hole Size	Casing Size	Length	Weight				Cement	Sacks	Yield	Weight				
COND	24	16	0 50	0.0	No Pipe Used	0.0		No Used Premium Lite High Stre	0	0.0	0.0				
SURF	12.25	9.625	0 - 1500	36.0	J-55 ST&C	0.0	_	Class G	ngth 216 205	2.9 1.61	11.0				
PROD	7.875	4.5	0 - 11990	11.6	HCP-110 LT&C	10.0)	Type V	543	3.82	11.0				
								50/50 Poz	490	1.26	14.2				
					ATTAC	HMENTS									
	VER	IFY THE FOLLOW	VING ARE ATT	ACHED	N ACCORDANCE W	ITH THE UTAH	OIL AND	GAS CONSERVATION G	ENERAL RULES						
₩	LL PLAT OR MA	AP PREPARED BY L	ICENSED SURVE	YOR OR E	NGINEER	COMPL	ETE DRILLI	NG PLAN							
AFF	IDAVIT OF STA	TUS OF SURFACE (OWNER AGREEM	IENT (IF FE	EE SURFACE)	FORM 5	. IF OPERAT	OR IS OTHER THAN THE LE	ASE OWNER						
DIR	ECTIONAL SUF	RVEY PLAN (IF DIRE	ECTIONALLY OR	HORIZON	TALLY DRILLED)	Г ТОРОБ	RAPHICAL I	ЛАР							
NAME Dav	vid F. Banko				TITLE Permit Agent	1		PHONE 303 820-4480							
SIGNATUR	RE				DATE 03/26/2012			EMAIL david@banko1.com	1						
	ER ASSIGNED 13513250	0000			APPROVAL	Basqill									
											Permit Manager				

					ST DEPARTMENT DIVISION C		URAL RESC				AMENI	FO DED REPOR	RM 3	
		AF	PLICATION FO	R PERM	IT TO DRILL					1. WELL NAME and NUMBER AFU 64-18-41				
2. TYPE OF	WORK	DRILL NEW WELL	REENTER	P&A WELL	DEEPEN	I WELL)			3. FIELD OR WILDCAT WILDCAT				
4. TYPE OF	WELL			albed Meth	nane Well: NO					5. UNIT or COMMUNI	TIZATION ASHLEY		ENT NAM	1E
6. NAME O	1							7. OPERATOR PHONE						
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	AL LEASE NUMI , INDIAN, OR ST	BER 'ATE)	,	11. MII	NERAL OWNERS		STATE () FEE(_	12. SURFACE OWNER		STATE	_	EE (
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(if box 12	= 'INDIAN')			YES	PLE FORMATIO		ng Applicatio	on) NO (VERTICAL DIF	RECTIONA	AL 📵 F	IORIZON	AL 🔵
20. LOCA	TION OF WELL			FOOTAGE	s	QTR	R-QTR	S C1	TION	TOWNSHIP	R/	ANGE	МЕ	RIDIAN
LOCATIO	N AT SURFACE		104	FSL 470	FWL	SW	vsw			6.0 S	4.	.0 W		U
Top of Up	permost Prod	ucing Zone	340	FSL 551	FWL	SW	/S/A	18	8	6.0 S	4.	.0 W		U
At Total Depth 660 FSL 660 FWL 18							8	6.0 S 4.0 W U						
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						or Comple 4893		POOL		26. PROPOSED DEPTI		TVD: 119	60	
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					Hole, Casing	, and Ce	ment Info	rmation						
String	Hole Size	Casing Size	Length	Weight	Grade & T	hread	Max Mu	ıd Wt.		Cement		Sacks	Yield	Weight
COND	24	16	0 50	0.0	No Pipe	Used	0.	0		No Used		0	0.0	0.0
SURF	12.25	9.625	0 - 1500	36.0	J-55 S	T&C	0.	0	Pre	mium Lite High Stre	ength	216	2.9	11.0
										Class G		205 543	1.61	14.2
PROD	7.875	4.5	0 - 11990	11.6	HCP-110	LT&C	10	.0		Type V			3.82	11.0
										50/50 Poz		490	1.26	14.2
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	VER	FY THE FOLLO	WING ARE ATT	ACHED I	N ACCORDAN	ICE WITH	H THE UTA	H OIL AN	ND GAS	CONSERVATION G	ENERA	L RULES		
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DIR	ECTIONAL SUR	VEY PLAN (IF DIR	ECTIONALLY OR	HORIZON	TALLY DRILLED) [торо	GRAPHIC <i>I</i>	AL MAP					
NAME Day	vid F. Banko				TITLE Permit A	Agent			PH	ONE 303 820-4480				
SIGNATU	RE				DATE 03/26/2	2012			EM	AIL david@banko1.cor	n			
	er assigned 13513250	000			APPROVAL				F	ermit Manager	- ₩			

Vantage Energy Uinta LLC **AFU 64-18-41**

Surface: 104' FSL 470' FWL (SW/4 SW/4)
BHL: ±660' FSL ±660' FWL (SW/4 SW/4) within a 60' radius
Sec. 18 T6S R4W

Duchesne County, Utah Federal Lease: UTU78210

NINE POINT DRILLING PROGRAM

(All drilling procedures will comply with BLM Onshore Oil and Gas Orders) and 2)

Vantage Energy Uinta LLC respectfully requests that all information regarding this well be kept CONFIDENTIAL.

This Application for Permit to Drill (APD) is being filed under the APD process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents.

THIS APD ALSO SERVES AS THE NOTICE OF STAKING PER OSO #1.

This document was prepared using language and requirements consistent with those previously approved by BLM/USFS. This APD process has recluded the following:

- Consultation with the Surface Management Agency, United State Forest Service (USFS) to initiate the National Environmental Policy Act (NEPA) process for this specific wellsite along with other earby proposed wellsites in September 8, 2008.
- Meeting with USFS at the wellsite on October 15, 2008, to review the topography, access and site specific surface use issues. Preliminary wellsite staking was initiated at this time.
- Authorization to conduct an archaeological survey was received from USFS on October 27, 2008, an archaeological survey was conducted shortly thereafter.
- Preliminary wellsite staking was completed on October 15, 2008. The wellsite was surveyed and staked at a location as preliminarily agreed to with USFS at 104' FSL 470' FWL (SW/4 SW/4) of Sec. 18 T6S R4W on December 15, 2008, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that is geologically and topographically acceptable.
- A wellsite review and NEPA planning meeting was held at the USFS office in Vernal, Utah on January 22, 2009. Attending were USFS, BLM, Petros Environmental (NEPA Contractor) and Vantage.
- The survey plats were finalized after the January 22, 2009 meeting and are as attached.

We understand that an onsite meeting with USFS/BLM representatives, and Vantage will be scheduled, at which time the specific concerns of USFS/BLM and Vantage will be discussed. Best efforts have been made to address specific concerns of the USFS.

Please contact Mr. John Moran, Senior Drilling Engineer, with Vantage at 303-386-8600, or Mr. David Banko, Banko, Permit Agent if there are any questions or concerns regarding this Drilling Program.

a) GEOLOGIC MARKERS

Anticipated tops of geologic markers are indicated in Table 1

Table 1 Estimated Tops of Geologic Markers

Formation	Vertical Depth	Measured Depth	Subsea Depth	Description	
Green River	Surface	Surface	7,740'	Sandstone/siltstone/shale	
Garden Gulch	3,225'	3,232'	4,530'	Sand and Siltstone	
Douglas Creek	4,175'	4,187'	3,580'	Sandstone/siltstone/shale	
Castle Peak	5,115'	5,133'	2,640'	Sandstone/siltstone/shale	
Uteland Butte	5,605'	5,626	2,150'	Carbonate/shale/sandstone	
Wasatch	5,815'	5,837	1,940'	Shale/sandstone	
Price River	10,115'	10,145'	-2,360'	Shale/Sandstone	
Blue Castle	11,955'	11,985'	-4,200'	Sandstone	
Total Depth	11,960'	11,990'	-4,205	TD +/- 5' into Blue Castle	

Surface Elevation: 7,740' (Ground) 7,755' (Est. KB).

Proposed Total Vertical Depth: 11,960' Proposed Total Measured Depth: 11,990'

b) DEPTHS OF WATER AND MINERAL BEARING ZONES

Potential water-bearing zones in the vicinity include the Wasatch and Green River formations (Robson and Banta, 1995. *Ground Water Arths of the United States Segment 2*, Hydrologic Investigations Atlas 730-C, U.S. Geological Survey, Roston VA). A review of data from the Utah Division of Water Rights indicated no permitted water wells within three miles of the proposed location. Utah Division of Oil, Gas, and Mining surface casing death requirements will protect potential aquifers in the area.

The depths to potential water and/or mineral-bearing zones are indicated in **Table 2**.

Table 2: Principal Anticipated Water and Mineral-bearing Zones

Formation	Vertical Depth	Subsea	Potential Contents
Green River	Surface	7,740'	Water
Garden Gulch	3,225'	4,530'	Oil/Gas
Douglas Creek	4,175'	3,580'	Oil/Gas
Castle Peak	5,115'	2,640'	Oil/Gas
Uteland Butte	5,605'	2,150'	Oil/Gas
Wasatch	5,815'	1,940'	Oil/Gas
Price River	10,115'	-2,360'	Oil/Gas
Blue Castle	11,955'	-4,200'	Oil/Gas

c) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

The maximum anticipated surface pressure for this well is calculated to be **2,966 psi**. Therefore, rules for a 3,000 psi rated BOP and choke manifold system are applicable. A diagram of the proposed 3,000 psi rated BOP stack configuration is shown in **Fig. 1**.

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BOPs and choke manifold will be installed and pressure tested before drilling out from under surface casing (subsequent pressure tests will be performed whenever pressure seals are broken) and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. The annular preventer, pipe rams, and blind rams will be activated on each trip and Operator will conduct weekly BOP drills with the rig crew.

Ram type preventers and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. **Please see variance request at end of program for this section.**

Annular type preventers will be pressure tested to 50% of their rated working pressure. A Sundry Notice (Form 3160~5), along with a copy of BOP test report, shall be submitted to the OSFS/BLM within 5 working days following the test. All casings strings will be pressure tested to 0.22psi/ft or 1,500psi, whichever is greater, not to exceed 70% of internal yield. Please see variance request at end of program for this section.

Casing shoe will be tested by drilling out from below the shoe and testing to the maximum expected mud weight as discussed in the mud program specifications below. Both manual and remote closing mechanisms will be installed on the BOP stick and will be readily available to the driller.

Statement on Accumulator System and Vocation of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with *Onshore Oil and Gas Order No. 2 (OSO #2)* for 3000 psi systems. Irregardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOPs and retain 200 psi above precharge. The proposed pressure control equipment will pleet or exceed standards specified in the Order OSO #2.

d) CASING PROGRAM

Casing of quality equal to or better than that indicated in **Tables 3** and **4** will be used for this well. Actual casing used will be dependent on availability.

Table 3 Proposed Casing Program

11 11 11 11 11 11 11 11 11 11 11 11 11									
Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight and Grade						
$0 - \pm 50'$	24"	16"	Optional Conductor – Only if Required						
0 – 1,500' 12-1/4"		9-5/8"	36# J55 ST&C, API New Pipe						
0 - 11,990'	7-7/8"	4-1/2"	11.6# HCP-110 LT&C, API New Pipe						

Table 4:	Proposed	Casing S	Specifications a	and Design	Safety Factors
----------	-----------------	----------	------------------	------------	----------------

Size	Collapse (psi)	Burst (psi)	Body Strength (1,000 lbs.)	Joint Strength (1,000 lbs.)	Thread	*	*Safety Factor	
						Burst Design	Collapse Design	Tension Design
16"			L ructural and to air drilling sur		Weld	(1.2) NA	(1.0) NA	(1.4) NA
9-5/8" 36# J55	2,020	3,520	564	394	ST&C	1.42	6.27	4.17
4-1/2" 11.6# HCP-110	8,650	10,690	367	279	LT&C	25	1.51	1.63

*Safety Factor Calculation Assumptions:

Surface Casing:

Burst Load: Assumes greater of MASP (maximum anticipated surface pressure) exposure during a worse case kick scenario while drilling at total depth, with mud/gas mixture whose gradient is 0.22 psi/ft. OR, minimum required casing test pressure.

```
MASP
Load = (Formation Gradient – 0.22 psi/ft) * Total Depth, TVD
= (0.468 psi/ft – 0.22 psi/ft) * 11,575 ft.
= 2,871 psi
```

TEST PRESSURE

Load = Greater of 1500 psig or 0.70*3520 = 2464 psig or MASP = 2871 psig SF Burst = 3,520 psi / 2,871 psi = 1.22

Collapse Load: Assumes worse case loading of evacuated casing during cementing process.

Cement density = 12.2 ppg (wtd avg) Load = 12.2 ppg * 0.052 * 1500 ft = 952 psi

SF Collapse = 2020 psi / 952 psi = 2.12

Tension Load: Assumes air weight at total depth + 100,000 lbs overpull design factor.

Load = (36 lbs/ft * 1500 ft) + 100,000 lbs overpull= 154,000 lbs

SF Tension = 394,000 lbs / 154,000 lbs = 2.55

Test Pressure = Production Casing

Burst Load: Assumes maximum load applied during the hydraulic fracture stimulations. It is Vantage Energy's policy not to exceed 80% rating of the production casing during the stimulation treatment. The 80% rating factor will also be the casing test pressure.

```
Load = 10690 psi * 0.80
= 8552 psi
SF Burst = 10690 psi / 8552 psi = 1.25
```

Collapse Load: Assumes worse case loading applied during the production cycle, with evacuated casing, and normally pressured formation gradient applied extensily.

```
Load = 0.433 psi/ft * 11575 ft
= 5012 psi
SF Collapse = 8650 psi / 5012 psi = 1.72
```

Tension Load: Assumes buoyed weight of casing at total depth + 80,000 lbs overpull design factor.

```
Load = [11.6 lbs/ft * 11575 ft* (65.5 - 10.0) / 65.5)] + 80,000 lbs
= 113,771 lbs + 80,000 lbs
= 193,771 lbs
```

SF Tension = 279,000 1 193,71 lbs = 1.44

e) **CEMENT PROGRAM**

Table 5: Propo			~ .
Measured Depth	Hole Diameter	Casing Diameter	Cement
0' - ± 50'	24"	16"	Optional structural conductor if required: Grout with approximately 4 cubic yards of redi-mix back to surface (includes 100% excess)
01 4 7 0 01	10.1/48	0. 7/01	TOC: Surface (Top-off per visual observation)
0' – 1500'	12 1/4"	9 5/8"	Lead System (1,000' – Surface) 216 sks "Lite" slurry + ½ tb/sk collopake. Density: 11.0 prg Yield: 2.90 cuft/sk Water: ½ 45 gal/s Excess: 100% Lail System (1,500' – 1,000') + 40' Shoe Joint 20.5 sks 50:50 (Class G: Poz) + 2% gel + 2% CaCl ₂ Density: 14.2 ppg Yield: 1.61 cuft/sk Water: 5.75 gal/sk Excess: 100%
0/ 11 0001	7.5/0"	4.1/20	TOC: Surface (Top-off per visual observation)
0' - 11,990'	7.7/8"	4 1/2"	<u>Lead System (9,500' – 2,500')</u> 543 sks Type "V" + 16% Gel + 10 lbs/sk gilsonite + 3% Salt + ¼ lb/sk celloflake
			Density: 11.0 ppg
			Yield: 3.82 cuft/sk
			Water: 23.0 gal/sk
			*Excess: 30%
			Tail System (11,575' – 9,500') + 40' Shoe Joint 490 sks 50:50 (Class G:Poz) + 2% gel + 10% salt + 1/4 lb/sk celloflake
			Density: 14.2 ppg Yield: 1.26 cuft/sk Water: 5.75 gal/sk
			*Excess: 30%

^{*}Note: The production hole cement volume will be determined by the caliper log, using caliper volume + 15% excess factor.

f) MUD PROGRAM

The mud program for the proposed well is indicated in **Table 6.**

Table 6 Proposed Mud Program

Interval (feet)	Mud Weight (lbs/gallon)	Viscosity (secs/qt)	Fluid Loss (ccs/30 min)	Mud Type						
$0 - \pm 50$	$0 - \pm 50$ ' NA		NA	NA						
	Set optional 14" conductor with bucket rig									
50' - 1500'±	50' - 1500'± NA		N/C	Air/Mist						
	Run/o	cement 9 5/8" surface	casing							
1500'± - TD	KCL Water / PHPA / DAP									
	Run Logs – F	Run/cement 4 1/2" pro	duction casing							

Surface Hole Comments: Spud with "spudder rig" and air drill surface hole misting as may be required to assist with cuttings removal. Report any water encountered to the appropriate agencies. <u>Please see</u> variance requests for this section.

Production Hole Comments: Dump spud must to reserve pit. Drill out surface casing with fresh water adding 6 ppb DAP (Diammonium Phosplate) for shale inhibition and corrosion control. Circulate the reserve pit and flocculate out drill solids. Use pre-hydrated gel and PHPA polymer mud sweeps to assist with hole cleaning. At approximately 3,600 mud up" and "close in" the fluid system to a 2-3% KCL base fluid. Use PHPA PAC and lignify for filtration control. Maintain fluid system through potential production zones to TD. Should seepage losses be experienced, control with LCM sweeps consisting of calcium carbonate, sawdast, celar fiber, or mica.

Sufficient mud naterials will be maintained on location to adequately maintain mud properties and contain any well kicks. Monitoring equipment will be installed on site to detect changes in mud volume.

g) LOGGING, CORING, AND TESTING PROGRAM

The proposed logging program is indicated in **Table 7**.

Table 7 Proposed Logging Program

Log Suites	Depth Range	Remarks		
DIL-SP-LD-CN-GR	Surface Casing to TD + GR to surface	Standard "triple combo" equivalent with resistivity-spontaneous potential, lithodensity, compensated neutron, gamma ray, and caliper		
Dipole Sonic	± 9,700' to TD	Optional – Operator's discretion Rock property data		
Rotary Sidewall Cores	± 9,972' to TD	Optional – Operator's discretion PP/Lithology data (perm-porosity)		

No coring or drill stem tests are planned. Mud logging unit will be operational from 200 feet above the Douglas Creek through total depth. Cuttings will be sampled every 20-30 feet.

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Prospective zones from the Douglas Creek formation through total depth will be perforated, tested, and potentially acid-washed. It is anticipated that multi-stage hydraulic fracture stimulations of the reservoir will be required.

h) ANTICIPATED PRESSURES AND HAZARDS

No abnormal pressures are anticipated. Pressure gradient in the Green River and Wasatch sequence is expected to be sub-normal pressured to less than 0.44 psi/ft, and then transition to slightly over pressure in the Price River sequence.

Estimated BHP Douglas Creek (4,175')	1,837 psi
Estimated BHP Wasatch (5,815')	2,559 psi
Estimated BHP Total Depth (11,960')	5,262 psi
Hydrostatic head of gas/mud	0.22 ps/ft
Maximum design surface pressure	0.468 - 0.22 psi/ft x 11,960 ft = 2,966 psi

No H2S zones are anticipated. No abnormal lost circulation zones are anticipated.

i) DIRECTIONAL PROGRAM

This is a directional well. Please see anached directional profile.

j) OTHER INFORMATION

Contact Information and Resonnel Mailing Address
Vantage Energy Uinta LLC
116 Inverness Drive, Suite 107
Englewood, CO 80112

Main Number: 303-386-8600 Fax Number: 303-386-8700

<u>Drilling Operations: John Moran</u> Office Direct: 303-386-8610 Fax Direct: 303-386-8710

Mobile: 303-249-2234

E-Mail: John.Moran@VantageEnergy.com

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Completion/Production Operations: Ed Long

Office Direct: 303-386-8639 Fax Direct: 303-386-8739 Mobile: 720-635-2125

E-Mail: Ed.Long@VantageEnergy.com

Geologist: Andrea Steinle Office Direct: 303-386-8632 Fax Direct: 303-386-8732 Mobile: 303-408-0994

E-Mail: Andrea.Steinle@VantageEnergy.com

Landman: Michael Holland Office Direct: 303-386-8638 Fax Direct: 303-386-8738 Mobile: 303-396-3443

E-Mail: Michael.Holland@VantageEnergy.com

START DATE AND DURATION OF ACTIVITIES

Anticipated start date

The drilling operations will commences soon as possible following contracting of drilling rig and in compliance with restrictions imposed by lease stipulations and/or Conditions of Approval. It is therefore anticipated the access ungrade work and location work would commence on or about August 1, 2012, with a target spud date of highest 15, 2012. It is anticipated the drilling phase will require 25 days.

Completion

The well pad will be of sufficient size to accommodate all required completion equipment and activities. It is anticipated select intervals will be perforated, stimulated and adequately tested for the presence of commercial hydrocarbons prior to moving uphole to the next prospective test interval. As such, it is anticipated the completion phase will require 45 - 60 days.

The total project duration is therefore estimated to be 70 - 85 days, and therefore anticipated to be concluded on or about November 10, 2012

A string of 2 3/8 inch 4.7 lb/ft. N-80 tubing would be run as the production tubing. A Sundry Notice will be submitted should there be any changes to the proposed completion program.

VARIANCE REQUESTS

1. Operator requests a variance to Onshore Oil and Gas Order 2, Item E, regulations for air/gas drilling operations. Operator plans to drill the surface hole to a depth of 1,500', with a "spud rig", in a separate operation from the drilling rig. No hydrocarbons are present in the surface hole section and therefore, "gas" drilling is not applicable to this hole section. Therefore, for the purpose only of drilling the surface hole with an air rig, Operator requests the following four (4) variances from the order that states "...the following equipment shall be in place and operational

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during air/gas drilling: (1) properly lubricated and maintained rotating head; (2) blooie line discharge one hundred feet (100') from wellbore; (3) automatic igniter or continuous pilot light on the blooie line; and (4) compressor located...a minimum of 100 feet (100') from the wellbore".

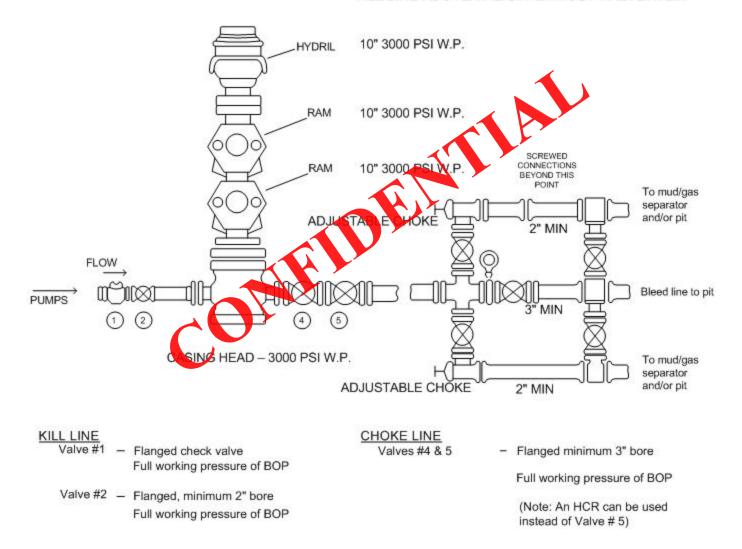
- a. Operator requests approval to use a diverter bowl rather then a rotating head as specified in the Order. The diverter bowl forces air and cuttings to the reserve pit and is only used to drill the surface hole (to a total depth of 1,500'). The surface hole section is non-hydrocarbon bearing, and therefore formation pressures will not require a pressure rated rotating head. Should water flows be encountered, they will be reported to the appropriate agencies.
- b. Operator requests approval to use a blooie line with a discharge length of less than the required one hundred feet (100') from the wellbore in order to minimize the well pad size, and to direct the cuttings into the reserve pit. The wellbore is to be located approximately thirty-five feet (35') from the reserve pit which is to be seventy feet (70') wide. Therefore, a one hundred foot (100') blooie line would blov cuttings across the reserve pit. The requested length of blooie line to drill the surface hole is thirty-five feet (35'). This is the distance necessary to reach the edge of the reserve pit, and to therefore direct cuttings into the reserve pit in a safe apt efficient manner.
- c. Operator requests approval to operate without an automatic igniter or continuous pilot light on the blooie line. The surface hole section is non-hydrocarbon bearing and therefore does not require a continuous ignition source.

Operator requests approval to use a trailer mounted air compressor located less than one hundred feet (100') from the wellbore in order to in maize the location size. The compressor will be located fifty feet (50') from the wellbore in an approxite direction of the blooie line. The compressor has the following safety features: (1) shut off valve on the trailer located approximately fifteen feet (15') from the air rig; (2) pressure relief valve on the compressor; and (3) spark arrestors on the motors. The compressor will only be used for the drilling of the surface hole, which is non-hydrocarbon bearing.

MINIMUM BOP Requirements

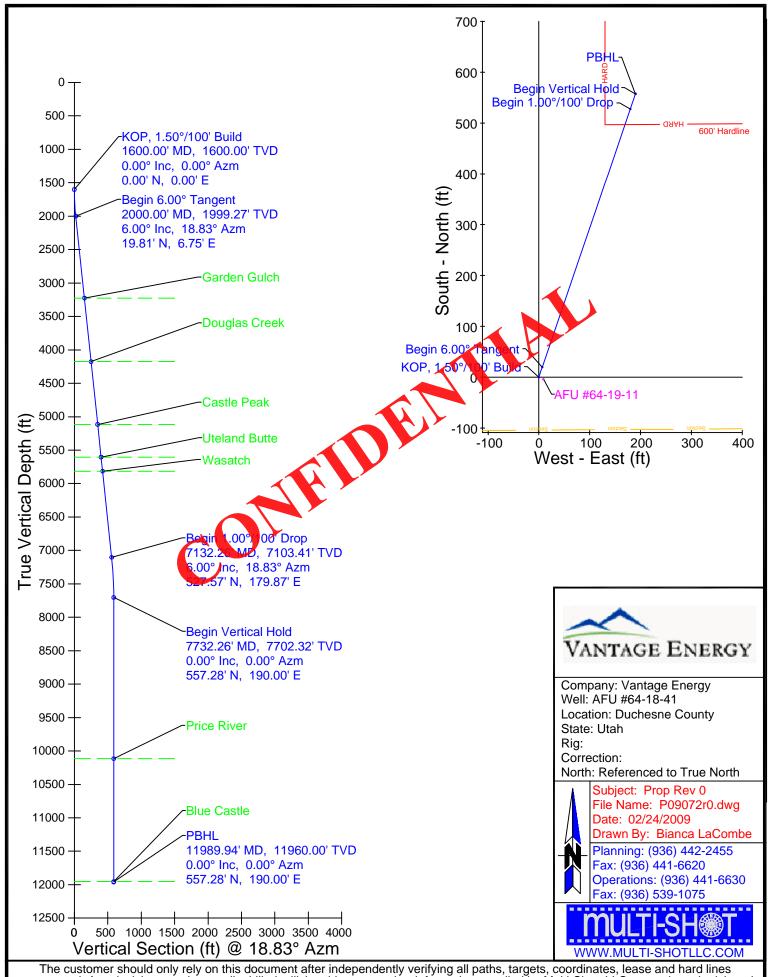
3000 PSI W.P.

FILL LINE ABOVE THE UPPERMOST PREVENTER



GENERAL RULES AND RECOMMENDATIONS

All lines to manifold are to be at right angles (90 deg.). No 45 deg. angles are to be used. Blind flanges are to be used for blanking. All studs and nuts are to be installed on all flanges.



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

Job Number: P09-072

Company: Vantage Energy Lease/Well: AFU #64-18-41

Location: Duchesne County

Rig Name:

RKB:

G.L. or M.S.L.: 7740'

State/Country: Utah

Declination:

Grid: Referenced to True North

File name: F:\WELLPL~1\2009\P09070'S\P09072\09072.SVY

Date/Time: 24-Feb-09 / 11:15 Curve Name: Prop Rev 0

WINSERVE PROPOSAL REPORT

Minimum Curvature Method

Vertical Section Plane 18.83

Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	V-S J-T	E-W FT	Vertical Section FT	C L O de Distance FT	S U R E Direction Deg	Dogleg Severity Deg/100		
KOP, 1.50	KOP, 1.50°/100' Build										
1600.00	.00	.00	7600.00	.00	.00	.00	.00	.00	.00		
1700.00	1.50	18.83	1699.99	1.24	.42	1.31	1.31	18.83	1.50		
1800.00	3.00	18.83	1799.91	4.95	1.69	5.23	5.23	18.83	1.50		
1900.00	4.50	18.83	1899.69	11.14	3.80	11.77	11.77	18.83	1.50		
Begin 6.0	0° Tangen										
2000.00	6.00	18.83	1999.27	19.81	6.75	20.92	20.92	18.83	1.50		
Garden G	Garden Gulch										
3232.48	6.00	18.83	3225.00	141.74	48.33	149.76	149.76	18.83	.00		
Douglas (Creek										
4187.72	6.00	18.83	4175.00	236.25	80.55	249.60	249.60	18.83	.00		
Castle Pe	ak										
5132.89	6.00	18.83	5115.00	329.76	112.43	348.40	348.40	18.83	.00		
Uteland B	utte										
5625.59	6.00	18.83	5605.00	378.51	129.05	399.90	399.90	18.83	.00		
Wasatch											
5836.75	6.00	18.83	5815.00	399.40	136.17	421.98	421.98	18.83	.00		
Begin 1.0	0°/100' Dr	ор									
7132.26	6.00	18.83	7103.41	527.57	179.87	557.39	557.39	18.83	.00		

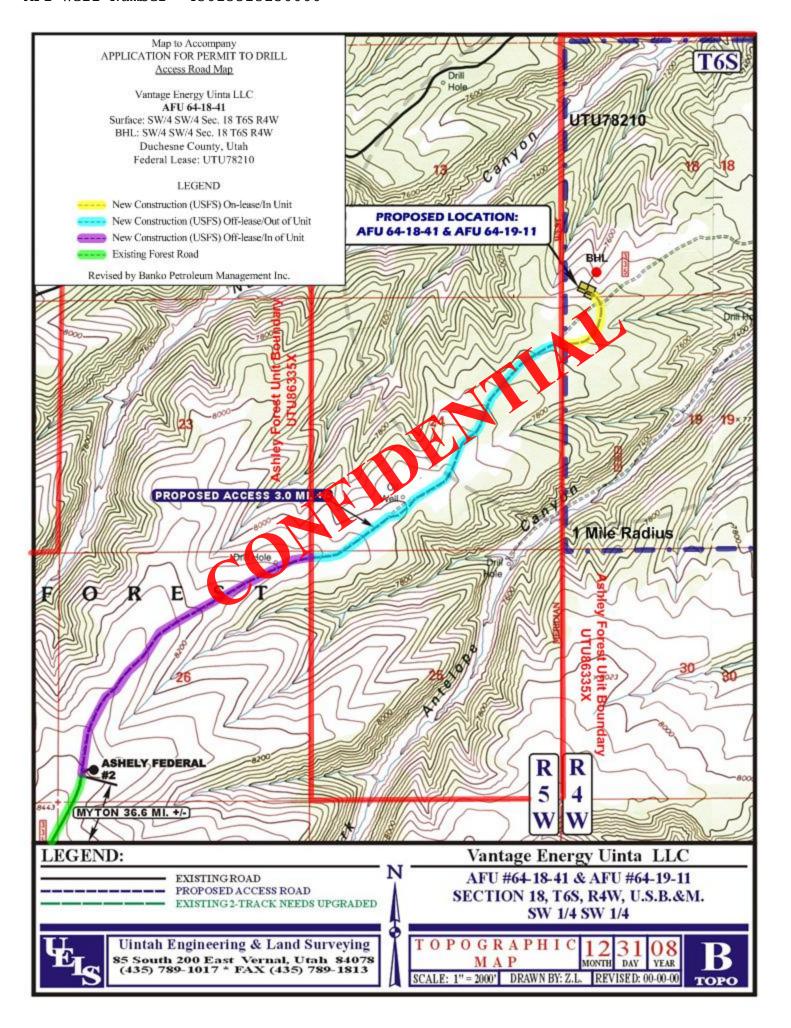
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOS Distance FT	S U R E Direction Deg	Dogleg Severity Deg/100			
7232.26 7332.26	5.00 4.00	18.83 18.83	7202.95 7302.64	536.65 544.07	182.97 185.50	566.98 574.82	566.98 574.82	18.83 18.83	1.00 1.00			
7432.26	3.00	18.83	7402.45	549.85	187.47	580.93	580.93	18.83	1.00			
7532.26	2.00	18.83	7502.36	553.98	188.87	585.29	585.29	18.83	1.00			
7632.26	1.00	18.83	7602.32	556.46	189.72	587.91	587.91	18.83	1.00			
Begin Vertical Hold												
7732.26	.00	.00	7702.32	557.28	190.00	588.78	588.78	18.83	1.00			
Price Rive	er											
10144.94	.00	.00	10115.00	557.28	190.00	588.78	588.78	18.83	.00			
Blue Cast	le											
11984.94	.00	.00	11955.00	557.28	190.00	588.78	588.78	18.83	.00			
PBHL												
11989.94	.00	.00	11960.00	557.28	190.00	588.78	588.78	18.83	.01			
		CC										

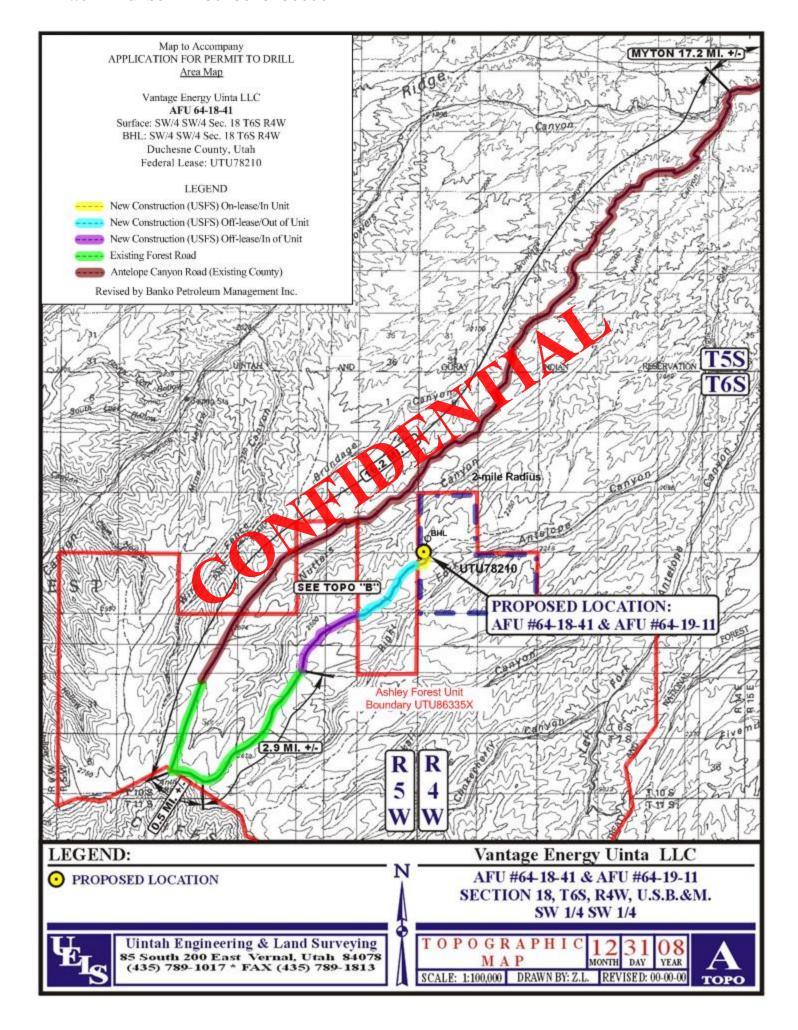
SECTION CORNERS LOCATED

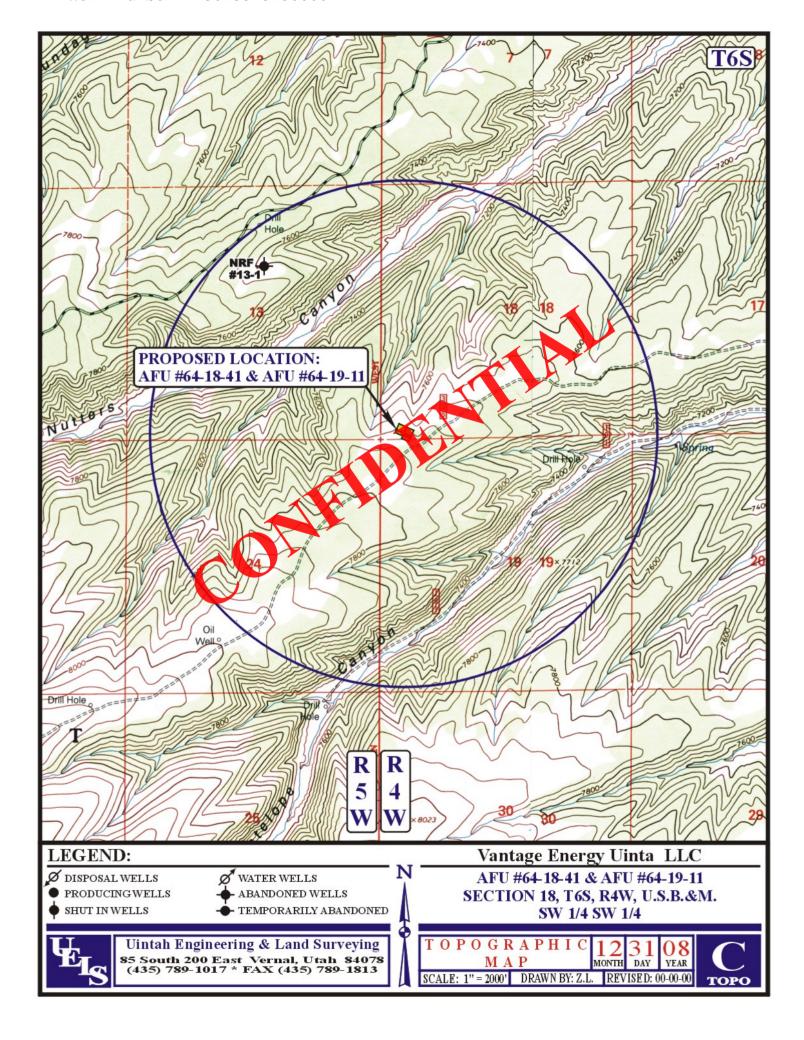
Vantage Energy Uinta

LLC

R4W







Vantage Energy Uinta LLC AFU 64-18-41

Surface: 104' FSL 470' FWL (SW/4 SW/4) BHL: ±660' FSL ±660' FWL (SW/4 SW/4) within a 60' radius Sec. 18 T6S R4W Duchesne County, Utah

Federal Lease: UTU78210

SURFACE USE PLAN OF OPERATIONS

Vantage Energy Uinta LLC respectfully requests that all information regarding this well be kept CONFIDENTIAL.

This Application for Permit to Drill (APD) is being filed under the APD process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents.

THIS APD ALSO SERVES AS THE NOTICE OF STAKING PER OSO #1.

This document was prepared using language and requirements consistent with those previously approved by BLM/USFS. This APD process has include the following:

- Consultation with the Surface Management Agency, United State Forest Service (USFS) to initiate the National Environmental Policy Act (NEPA) process for this specific wellsite along with other nearby proposed wellsites in September 8, 2008.
- Meeting with UFS at the wellsite on October 15, 2008, to review the topography, access and site specific surface us issues. Preliminary wellsite staking was initiated at this time.
- Authorization to conduct an archaeological survey was received from USFS on October 27, 2008, an archaeological survey was conducted shortly thereafter.
- Preliminary wellsite staking was completed on October 15, 2008. The wellsite was surveyed and staked at a location as preliminarily agreed to with USFS at 104' FSL 470' FWL (SW/4 SW/4) of Sec. 18 T6S R4W on December 15, 2008, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that is geologically and topographically acceptable.
- A wellsite review and NEPA planning meeting was held at the USFS office in Vernal, Utah on January 22, 2009. Attending were USFS, BLM, Petros Environmental (NEPA Contractor) and Vantage.
- The survey plats were finalized after the January 22, 2009 meeting and are as attached.

We understand that an onsite meeting with USFS/BLM representatives, and Vantage will be scheduled, at which time the specific concerns of USFS/BLM and Vantage will be discussed. Best efforts have been made to address specific concerns of the USFS.

Please contact David Banko at 303-820-4480 to arrange an onsite meeting.

WELL LOCATION AND INTRODUCTION

The wellsite was surveyed and staked at 104' FSL 470' FWL (SW/4 SW/4) of Sec. 18 on December 15, 2008, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that was geologically and topographically acceptable. This location was reviewed and confirmed at the meeting

between USFS, BLM and Vantage on January 22, 2009. The wellsite and access road fall within the boundary of the Ashley Forest Unit identified by Serial Register No. 86335X.

DIRECTIONS TO LOCATION:

From the intersection of State Highway 80 and Antelope Canyon Road southeast of Bridgeland, Utah, travel southwesterly on Antelope Canyon Road ± 35 miles to Forest Road 333 (FR 333). Continue southwesterly on FR 333 for ± 1.6 miles to FR 163. Turn left on FR 163 and travel easterly ± 0.1 miles to FR 336. Turn left of FR 335 and travel northeasterly ± 2.9 miles to the proposed staked access road. Continue northeasterly on proposed access road for ± 3.0 miles to the proposed location.

1) EXISTING ROADS

This APD will serve as a request for USFS/BLM to initiate a Right-of-Way (ROW) application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead. Width of ROW requested is 40 feet.

- A. The well is an exploratory well.
- B. Existing roads within 2.00 miles consist of a two-track trail to within 0.1 miles of the location and a USFS maintained dirt and gravel surfaced road within 3.0 miles of the location, which will provide access to the proposed location.
- C. The existing 2-track road will be tagraded to meet standards of the anticipated traffic flow and all-weather road regarrements and to the minimum degree needed. Upgrading may include ditching, drainage graveling, crowning, capping the roadbed as necessary to provide a well constructed safe took however, because this is an exploratory well, improvements to the access road till consist of the minimum construction needed for safe travel. Prior to any upgrading, the road will be cleared of any snow cover and allowed to dry completely. Upgrading will not be allowed during muddy conditions. Should mud holes develop, they will be filled in and detours around them avoided.
- D. The existing roads will be maintained and repaired as necessary.

2) <u>PLANNED ACCESS ROADS</u>

This APD will serve as a request for USFS/BLM to initiate a ROW application for access roads and water haul routes. Please contact us if authorized federal access ROW to this location is not in order, or if USFS/BLM has additional requirements.

±3.0 miles – Total new road construction, Secs. 18, 19, 24, 25 and 26 – USFS

- A. Running surface width to be $\pm 14^{\circ}$ $\pm 16^{\circ}$, total disturbed width to be no more than 40°. Plans for improvement and/or maintenance of existing roads are to maintain in as good or better conditions that at present. A regular maintenance plan will include, but not be limited to blading, ditching, and surfacing.
- B. Borrow ditches to be backsloped 3:1 or shallower. Weather permitting, the access road will be mowed and the borrow ditch material will be pulled over the top of the mowed area.
- C. Maximum grade will not exceed BLM standards.
- D. No culverts are anticipated.
- E. Surfacing material, if necessary, to consist of native material from borrow ditches, topsoil will be buried in road crown.
- F. No major road cuts are necessary.

- G. Fence cuts, gates, and cattleguards will not be required.
- H. Road construction on public lands shall meet the minimum standards listed in BLM Manual Section 9113 and shall be constructed under the direction of a qualified construction supervisor(s). The qualified construction supervisor shall be an engineer, company superintendent or other representative who is competent and knowledgeable in oilfield road and drillsite construction, and able to speak for the operator. The dirt contractor, or drilling/completion foremen whose primary expertise is not in construction, do not qualify as construction supervisors.
- I. All trees on the location and access road with trunks greater than 4" in diameter shall be purchased prior to construction from the USFS and disposed of by one of the following methods:
 - 1. Trees, if any, shall be cut with a maximum stump height of six highes (6") and cut to 4-foot lengths and stacked off location. Trees will not be dozed off the location or access road, except on private surface where trees may be dozed.
 - 2. Limbs may be scattered off location and access road but not dozed off.
 - 3. Rootballs shall be buried or placed off location and access road to be scattered back over the disturbed area as part of the final reclamation.

3) LOCATION OF EXISTING WELLS WINING WOMILE RADIUS

Proposed SEE TABLE 8
Drilling NONE
Abandoned SEE TABLE 8
Disposal/Injection SEE TABLE 8
Producing SEE TABLE 8

LOCATION OF EXISTING FACILITIES OPERATED BY VANTAGE NONE

7) <u>NEW PRODUCTION FACILITIES PROPOSED</u>

- A. USFS/BLM will be contacted prior to construction of production facilities. A Sundry Notice (SN) will be filed if requested by BLM.
- B. Dimension of Proposed Facility of the pad is ± 325 ' long and ± 265 ' wide, containing ± 2.0 acres, with a total well site disturbance of ± 2.369 acres. The well access road is ± 3.0 miles long with a 30' ROW, disturbing ± 10.834 acre. New surface disturbance associated with the access road and the well pad is estimated to be ± 13.203 acres. No pipelines or surface facilities are proposed. See attached plats and Topo Map B.
- C. Traveled portion of production site will be gravel surfaced upon completion of production facility installation and prior to production. Site preparation for production will be done with standard excavation equipment using native materials. Additional surface material will be obtained from commercial sources or an approved borrow area. Construction and maintenance will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.
- D. All above ground permanent structures will be painted to blend with the surrounding landscape. The color used will be as agreed upon with USFS/BLM. To reduce the view of production facilities from visibility corridors and private residences, facilities will not be placed in visually

- exposed locations (such as ridgelines and hilltops). The tallest structure will be no greater than 22' in height.
- E. Production facilities may vary according to actual reservoir discovered and will be engineered upon completion of well tests. Production facilities will be clustered and placed away from cut/fill slopes to allow the maximum recontouring of cut/fill slopes.
- F. If well is a producer, all production facilities will be authorized by a SN.
- G. No facilities will be constructed off location.
- H. Pursuant to Onshore Order No. 7 (OSO #7), this is a request for authorization for reserve pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by BLM and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method will be submitted along with any necessary water analyses, in compliance with OSO #7 as soon as possible, but no later than 43 days after the date of first production. Any method of disposal, which has not been approved prior to the end of the authorized 90-day period, will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by BLM.
- I. All trees on the location and access road with trunks greater than 4" in diameter shall be purchased prior to construction from the USTS and disposed of by one of the following methods:
 - 1. Trees, if any, shall be cut with a maximum stump height of six inches (6") and cut to 4-foot lengths and stacked of location. Trees will not be dozed off the location or access road, exception private surface where trees may be dozed.
 - 2. Limbs may be scattered off location and access road but not dozed off.
 - 3. Roothalls shall be buried or placed off location and access road to be scattered back over the disturbed area as part of the final reclamation.

7) LOCATION AND TYPE OF WATER SUPPLY

- A. Water supply will be from the Ouray Municipal Water Plant at Ouray, Utah, and/or Target Trucking Inc.'s water source in the SW/SW, Sec. 35, T9S, R22E, Uintah County, than (State Water Right No. 49-1501). Water will be hauled by a licensed trucking company.
- B. If drilling the conductor or surface hole indicates the existence of water bearing zones, Operator will consider drilling a water well on the location to provide a more viable water source. Drilling a water well would reduce truck travel to the well site. No additional disturbance will result from drilling a water well. If a water well is drilled, it would be properly permitted with the Utah Division of Water Rights.

6) <u>SOURCE OF CONSTRUCTION MATERIALS</u>

- J. All construction material for these location sites and access roads shall be of native borrow and soil material accumulated during the construction of the location sites and access road. Surface disturbance will be minimized to the extent feasible.
- K. All construction materials will come from federal land.
- L. No mineral materials will be required.

7) <u>WASTE DISPOSAL</u>

- A. Drill cuttings will be buried in reserve pit when dry.
- B. Drilling fluid will be evaporated and then buried in the reserve pit when dry. A "Closed Mud System" may be used if technically feasible and available at the time of drilling operations. If so, water may be hauled to and used at another drillsite in the area.
- C. Completion fluids will be flowed to the reserve pit and allowed to evaporate.
- D. Reserve pit layout is illustrated on Figures 1 and 2
- E. Reserve pit will be lined with a synthetic liner 12 mil or thicker. The reserve pit liner shall be made of any manmade synthetic material of sufficient size and qualities to sustain a hydraulic conductivity no greater than 1×10^{-7} cm/sec after installation and which is sufficiently reinforced to withstand normal wear and tear associated with the installation and pit use thereof. The liner shall be chemically compatible with all substances that may be put into the pit.
- F. Reserve pit will be fenced on three sides during drilling operations, and on fourth side at time of rig release. Pit will remain fenced until beck illed.
- G. Flare pit for air drilling will (if used) be located minimum 100' from wellbore.
- H. Produced fluid will be contained in test tanks during completion and testing.
- I. Sewage disposal facilities will be in a cordance with State and Local Regulations.
- J. Garbage and other waste solid waste will be contained in a portable trash cage which will be totally enclosed with small mesh vire. Cage and contents will be transported to and trash dumped at a UDEQ approved Santary Landfill upon completion of operations.
- K. Trash will be contained in trash cage at all times.
- L. Upon release of the drilling rig, rathole and mousehole will be filled. Debris and equipment not required for production will be removed.

8) ANCILLARY FACILIES

No ancillary facilities are proposed.

9) WELLSITE LAYOUT

- A) See attached drillsite plat and cut/fill diagram.
- B) Roads and well production equipment, such as tanks, treaters, separators, vents, electrical boxes, and equipment associated with pipeline operation, will be placed on location so as to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper recontouring and revegetation can occur.
- C) 6" of topsoil will be removed prior to location construction from the reserve pit area and/or any other disturbed areas. Topsoil will be stockpiled adjacent to the wellsite within the maximum disturbed area shown on the wellsite plat.
- D) Topsoil and spoils pile will be clearly separated as shown on Figure 1.
- E) Erosion control measures will be applied pursuant to Vantage's General Permit to Discharge Stormwater under the Utah Pollutant Discharge Elimination System and accompanying Stormwater Pollution Prevention Plan.
- F) A "Closed Mud System" may be used if technically feasible and available at the time of drilling operations. If so, the reserve pit will be reduced in size.

10) PIPELINES AND FLOWLINES

A separate Right-of-Way (ROW) application for the pipeline route will be submitted separately after consultation with the USFS.

11) PLANS FOR RECLAMATION OF THE SURFACE:

- A) Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.
- B) Earthwork for interim and final reclamation must be completed within six (6) months of well completion or plugging (weather permitting).
- C) In areas that will not be drill-seeded, the seed mix will be broadcast-seeded at twice the application rate shown and covered 0.25 to 0.5 inches deep with that ow or drag bar or will be broadcast-seeded into imprints, such as fresh dozer commarks.
- D) No seeding will occur from May 15 to September 15. Fall seeding is preferred and will be conducted after September 15 and prior to ground frozing. Spring seeding will be conducted after the frost leaves the ground and no later that May 15.
- Annual or noxious weeds shall be controlled on all disturbed areas as directed by the Field Office Manager. An intensive weed monitoring and control program will be implemented beginning the first proving season after interim and final reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. A Pesticide Use Proposal (PUP) will be submitted to the USFS/BLM for approval prior to the use of herbicides. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable nonnative species. The operator will coordinate all weed and insect control measures with state and/or local management agencies.
- F) Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.
- Reclamation monitoring will be documented in a reclamation report and submitted to the AO. The report will document compliance with all aspects of the reclamation objectives and standards, identify whether the reclamation objectives and standards are likely to be achieved in the near future without additional actions, and identify actions that have been or will be taken to meet the objectives and standards. The report will also include acreage figures for: Initial Disturbed Acres; Successful Interim Reclaimed Acres; Successful Final Reclaimed Acres. Reports will not be submitted for sites approved by the AO in writing as having met interim or final reclamation standards. Any time 30% or more of a reclaimed area is redisturbed, monitoring will be reinitiated.
- H) The AO will be informed when reclamation has been completed, is successful, and the site is ready for final inspection.

INTERIM RESTORATION (Production)

- A) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut/fill slopes. These areas will be re-seeded.
- B) Wellpad size will be reduced to minimum size necessary to conduct safe operations. Cut/fills will be reduced to 3:1 or shallower.
- C) Reserve pits will be closed and backfilled as soon as the pit contents are dry enough to do so, or no later than the end of the next full summer following rig release, whichever

- comes first, to allow sufficient time for the pit contents to dry. Reserve pits remaining open after this period will require written authorization of the AO. Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling.
- D) Following completion activities, pit liners will be removed or removed to the solids level and disposed of at an approved landfill, or treated to prevent their reemergence to the surface and interference with long-term successful revegetation. If it was necessary to line the pit with a synthetic liner, the pit will not be trenched (cut) or filled (squeezed) while containing fluids. When dry, the pit will be backfilled with a minimum of five (5) feet of soil material. In relatively flat areas, the pit area will be slightly mounded to allow for settling and to promote surface drainage away from the backfilled it.
- E) The portions of the cleared well site not needed for operational and safely purposes will be recontoured to the original contour if feasible, or if not feasible to an interim contour that blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment in some cases, rig anchors may need to be pulled and reset after recontouring to allow for maximum interim reclamation.
- F) Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including road cut/fills and to within a few feet of the production facilities, unless are all weather, surfaced, access route or small "teardrop" turnaround is needed on the well pad
- Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 75 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by USFS/BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut/fill slopes.
- H) Thelp mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over recontoured cut/fill slopes.
- I) A proposed seed mixture for this location is:
 - 4.80#/acre PLS Sand bluestem (Elida, Garden)
 - 0.20#/acre PLS Sand lovegrass (Bend)
 - 1.35#/acre PLS Switchgrass (Granvillo or Blackwolf)
 - 1.30#/acre PLS Prairie sandreed (Goshen)
 - 1.60#/acre PLS Western Wheatgrass (Arriba or Barton)
 - 9.25#/acre PLS TOTAL
- J) Reclamation will be considered successful if the following criteria are met:
 - · 70 percent of predisturbance cover
 - · 90 percent dominate species*
 - · Erosion features equal to or less than surrounding area

The vegetation will consist of species included in the seed mix and/or occurring in the surrounding natural vegetation.

FINAL RESTORATION (P & A – Removal of equipment)

- A) Flowlines on location will be removed before site reclamation and all flowlines between the wellsite and production facilities will remain in place and will be filled with water.
- B) If necessary to ensure timely revegetation, the pad will be fenced to USFS standards to exclude livestock grazing for the first two growing seasons or until seeded species become firmly established, whichever comes later. Fencing will meet standards found on page 18 of the BLM Gold Book, 4th Edition, or will be fenced with operational electric fencing.
- C) Revegetation will be accomplished by planting mixed grasses as specified below. Revegetation is recommended for road area as well as around production site.
- D) A proposed seed mixture for this location is:
 - 4.80#/acre PLS Sand bluestem (Elida, Garden)
 - 0.20#/acre PLS Sand lovegrass (Bend)
 - 1.35#/acre PLS Switchgrass (Granvillo or Blackwolf)
 - 1.30#/acre PLS Prairie sandreed (Goshen)
 - 1.60#/acre PLS Western Wheatgrass (Arriba of Parton)
 - 9.25#/acre PLS TOTAL
- E) Initial seedbed preparation will consist of backfuling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final see bed preparation. A certified weed-free seed mix designed by USFS (shown above) to meet reclamation standards will be used. The seed mix will be used or all disturbed surfaces including pipelines and road cut/fill slopes.
- F) Distribute topsoil of an remains, evenly over the location, and seed according to the above seed mixture. If needed the access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.
- G) A disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Resalvaged topsoil will be spread evenly over the entire disturbed site to ensure successful revegetation. To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, woody debris, and large rocks over recontoured cut/fill slopes.

12) General Information

- A) Project area is situated in the undulated uplands of the western part of the Uintah Basin.
- B) Topographic and geologic features moderate relief area, moderately drained, sand-clay deposition, surrounded by steep uplands with highly eroded drainages.
- C) Soil characteristics clay loam.
- D) Flora consists of: Sagebrush and short grasses. Please refer to archaeological report and botany report to be included in the NEPA document.
- E) Fauna none observed. Please refer to the wildlife report to be included in the NEPA document.
- F) Concurrent surface use grazing and hunting.
- G) Mineral Lessor:

Bureau of Land Management, Vernal Field Office

170 South 500 East, Vernal, UT 84078

Phone: 435-781-4400; Fax: 435-781-4410

H) Surface Management Agency:

U.S. Forest Service, Duchesne Ranger District 85 W. Main St., Duchesne, UT 84021 Phone: 435-738-2482; Fax: 435-781-5215

- I) Proximity of water, occupied dwellings or other features: ±500' (0.1 miles) to the northwest; flowing into Nutters Canyon Creek.
- J) Archaeological, cultural and historical information for the new construction on federal lands will be submitted separately by Montgomery Archaeological Consultants.
- K) If any fossils are discovered during construction, the operator shall cease construction immediately and notify the AO so as to determine the significance of the discovery.
- L) A Class III (100% pedestrian) cultural resource inventory shall be completed prior to disturbance by a qualified professional archaeologist in the following areas: Well location. A report of the inventory will be submitted and approved by the BLM with stipulations as appropriate in order to comply with EO 11593 and Section 106 of the National Historic Preservation Act of 1966. See Section "General Information" K" above.
- M) The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction the operator is to immediately stop work that might further disturb such materials, and contact the AO. The AO will inform the operator as to the work needed to determine the following
 - Whether the materials appear eligible for the National Register of Historic Places;
 - The mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
 - timeframe for the AO to complete an expedited review to acquire the State Preservation Officer's concurrence that the findings of the AO are correct and that mitigation is appropriate.
- N) Vantage maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

Vantage Energy Uinta LLC AFU 64-18-41

Surface: 104' FSL 470' FWL (SW/4 SW/4)

BHL: ±660' FSL ±660' FWL (SW/4 SW/4) within a 60' radius

Sec. 18 T6S R4W Duchesne County, Utah Federal Lease: UTU78210

APPLICATION FOR PERMIT TO DRILL OPERATOR CERTIFICATION

LESSEE'S OR OPERATOR'S REPRESENTATIVE:

Operator

Vantage Energy Uinta LLC 116 Inverness Drive East, Suite 107 Englewood, CO 80112

Phone: 303-386-8600

Mark Rothenberg - Senior Project Engineer John Moran – Senior Drilling Engineer Michael Holland - Senior Landman

Field Office:

Vantage Energy Uinta LL 116 Inverness Drive Fast Suite Englewood, CO 80112

Phone: 303-386-8600

Banko Petroleum Management, Inc. 385 Invernes Park ay, Suite 420 Englewood, Colorado 80112-5849 Phone: 303-820-4480

Hax: 303-820-4124

- *+ David Banko Consulting Petro Engineer david@banko1.com
- *+ Kimberly Rodell Regulatory Technician kim@banko1.com

Keith Dana – Range Mgmt. Consultant

Cell: 307-389-8227 krlcdana@fascination.com

- * Contact to arrange onsite meeting.
- For any questions or comments regarding this permit.

OPERATOR CERTIFICATION:

I hereby certify that Vantage Energy Uinta LLC and its contractors and sub-contractors are responsible for the operations conducted under this application subject to the terms and conditions of the mineral lease. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Vantage Energy Uinta LLC under their nationwide bond, BLM Bond No. UTB000288.

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Page 11

AFU 64-18-41 **DISTRIBUTION PAGE**

March 23, 2012

Kimberly J. Rodell Permit Agent for Vantage Energy Uinta LLC

TABLE 8
Vantage Energy Uinta LLC
AFU 64-18-41
Surface: (SW/4 SW/4)
BHL: (SW/4 SW/4)
Sec. 18 T6S R4W
Duchesne County, Utah
Wells within a 2-Mile Radius

API Well Number	Operator	Well Name	Well Status	Well Type	Coalbed Methane Well?	Field Name	Surface Ownership	Mineral Lease	County		Section	Township Range	FNL	/FSL	FEL/	FWL	Elev. GR	TD
43-013-34220-00-	VANTAGE ENERGY UINTA LLC	AFU 64-19-11	Location Abandoned	Gas Well	No	SOWERS CANYON	Federa	Federal	DUCHESNE	SWSW	18	6S-4W	100	S	479	W	7740	
43-013-30418	BURTON/HAWKS INC	RT FORK ANTELOPE CYN FED 19-1	Location Abandoned	Gas Well	No	SOWERS CANNON	Federal	Federal	DUCHESNE	NENE	19	6S-4W	505	N	645	E	7240	
43-013-33491	BERRY PETROLEUM COMPANY	FEDERAL 6-11-65	Producing	Oil Well	No	UNDESIGNATED	Federal	Federal	DUCHESNE	SENW	11	6S-5W	2210	N	1907	w	7667	5985
43-013-34061	BERRY PETROLEUM COMPANY	FEDERAL 7-11D-65	Approved permit (APD); not yet spudde	Oil Well	Alo	UNLESIGNATED	Federal	Federal	DUCHESNE	SENW	11	6S-5W	2152	N	1929	w	7667	
43-013-30421	BURTON/HAWKS INC	NUTTERS RIDGE FED 13-1	Plugged and Abandoned	Unknown	No	SOWERS CANYON	Federal	Federal	DUCHESNE	NWNE	13	6S-5W	837	N	2443	E	7675	4717
43-013-30426	BERRY PETROLEUM COMPANY	ANTELOPE RIDGE 24-1	Shut-In	Gas Well	No	SOWERS CANYON	Federal	Federal	DUCHESNE	SESW	24	6S-5W	986	s	1857	w	7999	5692
43-013-30406	BERRY PETROLEUM COMPANY	R FORK ANTELOPE CYN FED 25-1	Shut	Gas Well	No	SOWERS CANYON	Federal	Federal	DUCHESNE	NENE	25	6S-5W	385	N	1183	E		4195
		CO																



Ms. Diana Mason State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114

Re: <u>Directional Drilling R649-3-11</u>

Vantage Energy Uinta, LLC

AFU 64-18-41

SHL: 104' FSL 470' FWL (SW/4 SW/4)

BHL: ± 660 ' FSL ± 660 ' FWL (SW/4 SW/4) within a 60' radius

Sec. 18 T6S R4W Duchesne County, Utah

Surface: Federal

Mineral: Federal Mineral Lease UTU78210

Dear Ms. Mason:

Pursuant to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well on February 24, 2009, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11, pertaining to the Exception of Location and Sitting of Wells.

March 23, 2012

- AFU 64-18-41 is an exploratory well located within the Ashley Forest Federal Unit No. UTU86335X.
- Vantage is permitting this well as stipulated by the United States Forest Service as a
 directional well in order to minimize surface disturbance. Locating the well at the surface
 location and directionally drilling from this location, Vantage will be better able to utilize
 any proposed roads and or pipelines in the area.
- Vantage is the unit operator of the Ashley Forest Draw Federal Unit. As it pertains to all depths from the surface to the base of the Wasatch Formation, Vantage certifies it is the sole working interest owner within 460 feet of the entire directional well bore and within Section 18 (federal oil and gas lease UTU 78210). As to all depths deeper than the Base of the Wasatch Formation, the sole working interest owner is Exxon Mobil Corporation (XOM). Vantage and XOM have entered into a mutually executed Exploration Agreement that provides for the possible development of those deeper depths.

Utah Division Oil, Gas & Mining

March 23, 2012

Page 2 of 2

Based on the above stated information, Vantage requests the permit be granted pursuant to the terms and conditions of Rule R649-3-11.

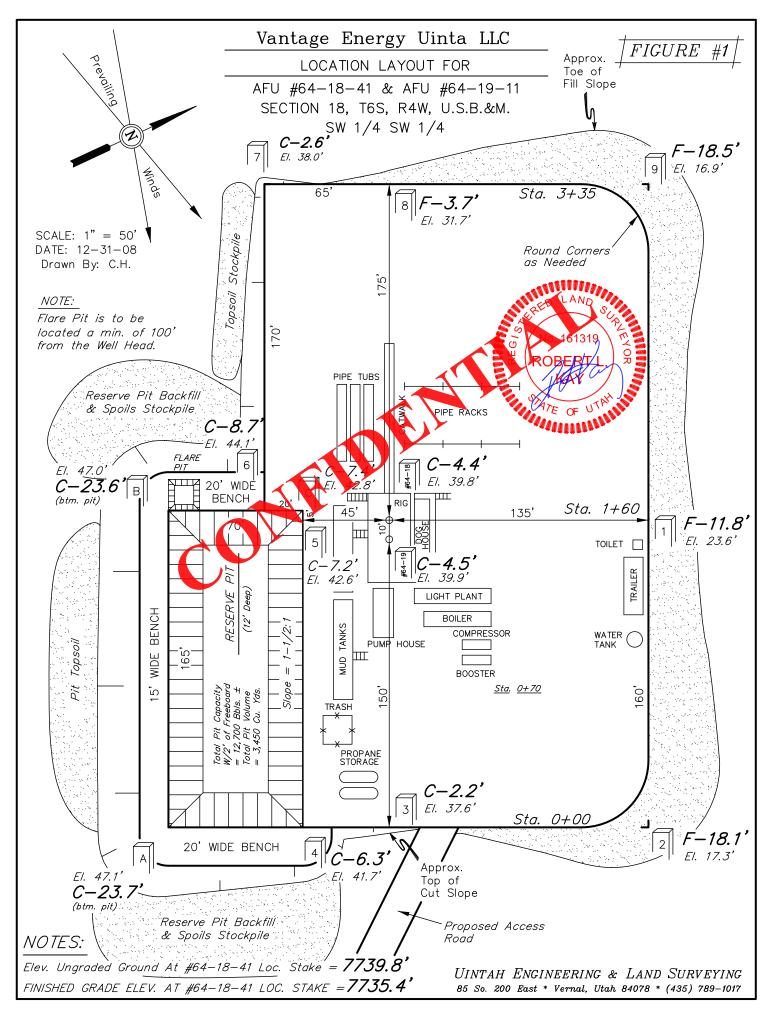
Sincerely,

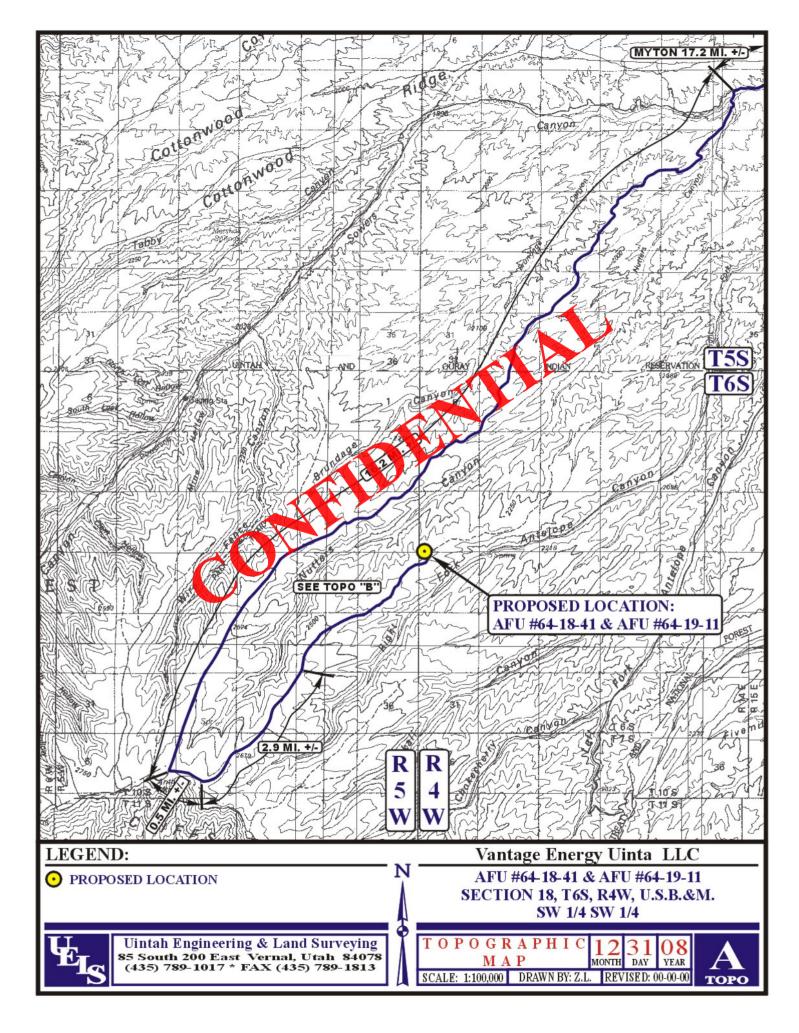
VANTAGE ENERGY UINTA, LLC

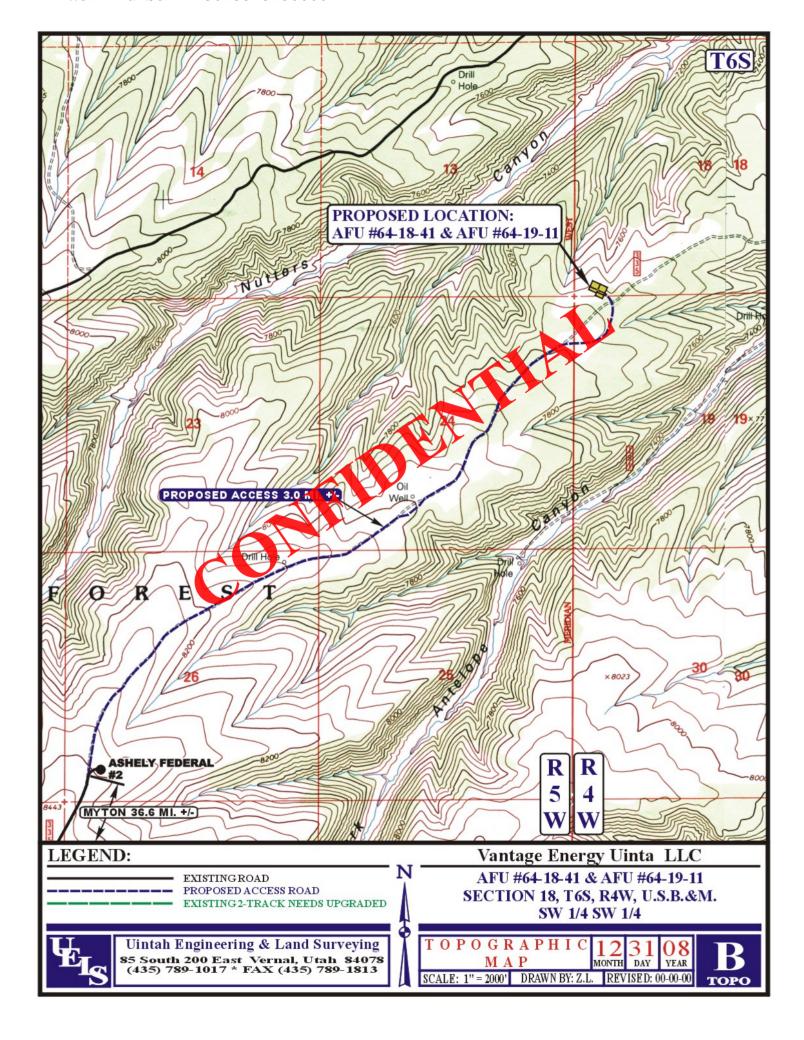
Michael Holland Senior Landman

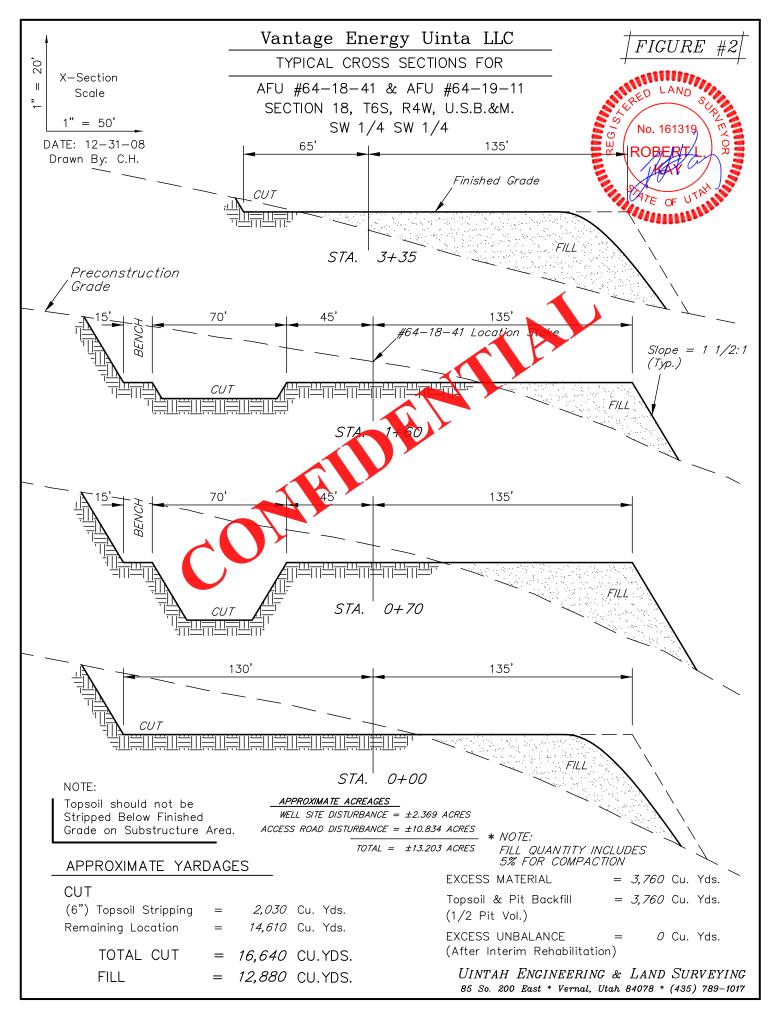
Cc: mth, jm, dv, tt, kh, su, David Banko, Kim Rodell, And Gross (Banko Petroleum

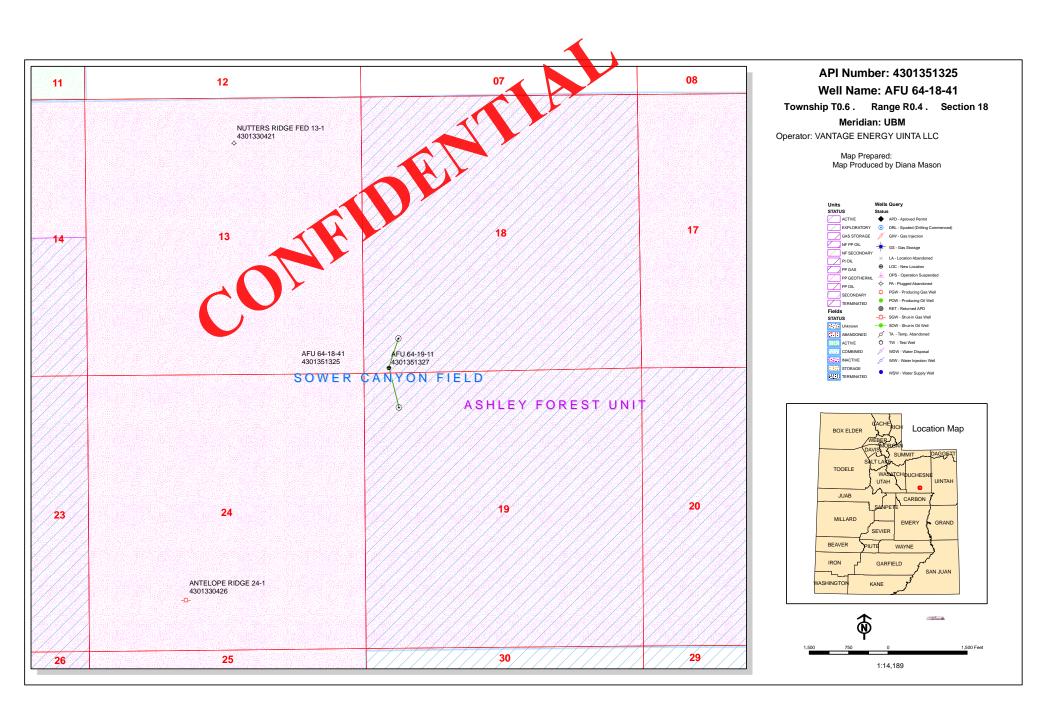
Management)











API Well Number: 43013513250000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

March 30, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

Michael Coulthard, Petroleum Engineer From:

2012 Plan of Development Ashley Subject:

Duchesne County, Utah.

Division of Oil, Gas and Pursuant to email between Diana White Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Ashley Forest Unit Duchesne County, Utah.

API# WELL NAME LOCATION

(Proposed PZ MESA

43-013-51324 FU 65 -32 Sec 28 T06S R05W 1859 FSL 1494 FWL

43-013-51325 AFU 64-18-41 Sec 18 T06S R04W 0104 FSL 0470 FWL BHL Sec 18 T06S R04W 0660 FSL 0660 FWL

43-013-51327 AFU 64-19-11 Sec 18 T06S R04W 0100 FSL 0479 FWL BHL Sec 19 T06S R04W 0660 FNL 0660 FWL

This office has no objection to permitting the wells at this time. For additional information please refer to our memo dated March 2, 2009.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land
Management, ou=Branch of Minerals,
Date: 2012.03.30 10:17:56-06:00'
Date: 2012.03.30 10:17:56-06:00'

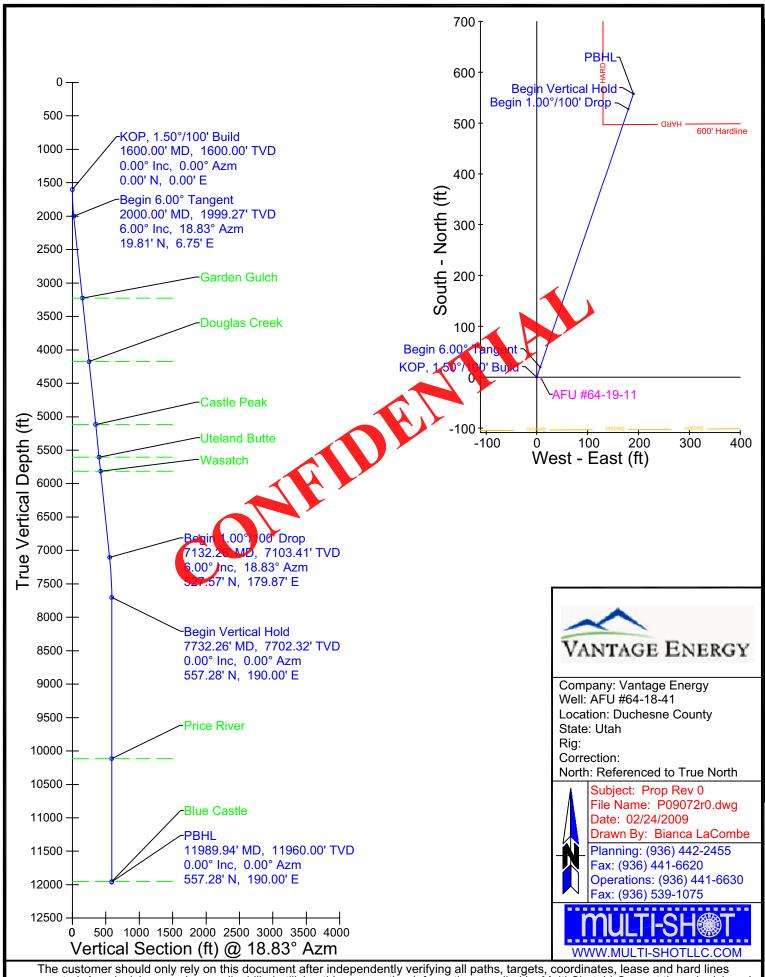
bcc: File - Ashley Forest Unit

Division of Oil Gas and Mining

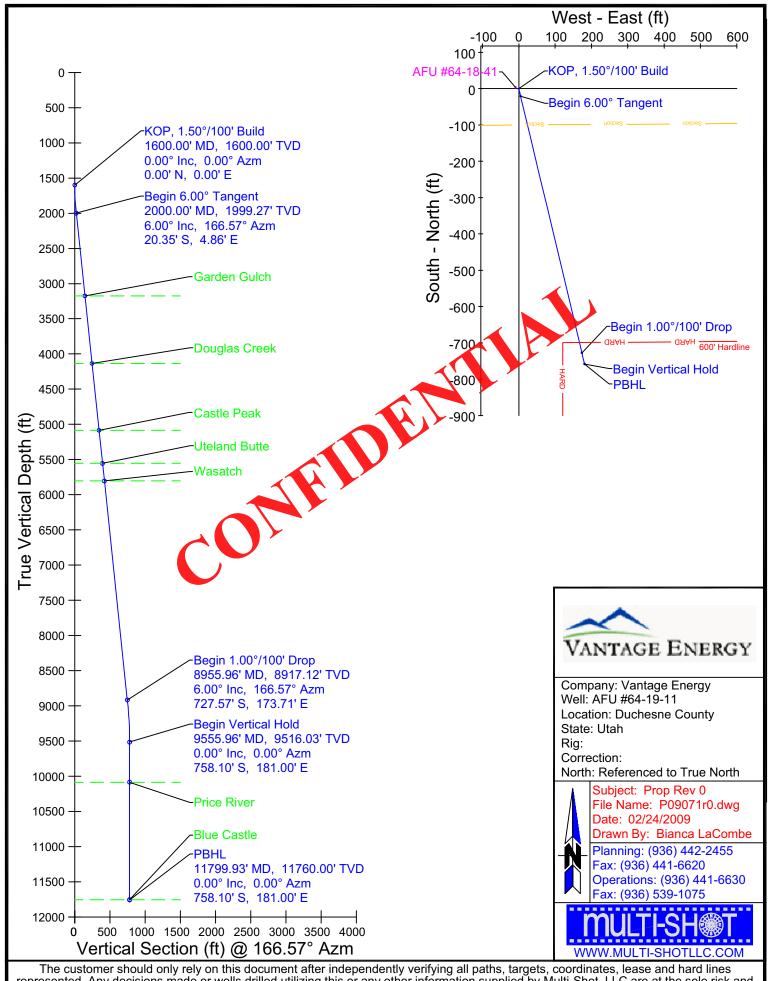
Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:3-30-12

RECEIVED: March 30, 2012



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.



represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

API Well Number: 43013513250000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/26/2012	API NO. ASSIGNED:	43013513250000
7.1. 2 1.1. 2.1. 2.1. 2.1. 2.1. 2.1. 2.1	/ · · · · · · · · · · · · · · · · · ·	

WELL NAME: AFU 64-18-41

OPERATOR: VANTAGE ENERGY UINTA LLC (N3295) **PHONE NUMBER:** 303 820-4480

CONTACT: David F. Banko

PROPOSED LOCATION: SWSW 18 060S 040W Permit Tech Review:

SURFACE: 0104 FSL 0470 FWL Engineering Review:

BOTTOM: 0660 FSL 0660 FWL Geology Review:

COUNTY: DUCHESNE

LATITUDE: 39.95302 LONGITUDE: -110.38530 UTM SURF EASTINGS: 552507.00 NORTHINGS: 4422723.00

FIELD NAME: WILDCAT

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU78210 **PROPOSED PRODUCING FORMATION(S):** MESA VERDE

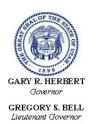
SURFACE OWNER: 1 - Federal COALBED METHANE: NO

RECEIVED AND/OR REVIEWED: LOCATION AND SITING: I✓ PLAT R649-2-3. Unit: ASHLEY FOREST Bond: FEDERAL - UTU000288 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: R649-3-11 Water Permit: 49-1501 **Effective Date: RDCC Review:** Fee Surface Agreement Siting: Intent to Commingle R649-3-11. Directional Drill **Commingling Approved**

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason 23 - Spacing - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: AFU 64-18-41 **API Well Number:** 43013513250000

Lease Number: UTU78210 Surface Owner: FEDERAL Approval Date: 4/4/2012

Issued to:

VANTAGE ENERGY UINTA LLC, 116 Inverness Drive East, Ste 107, Englewood, CO 80112

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being

drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available) OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

			FORM 9
	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR	CES	
ι	DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU78210
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.	7.UNIT or CA AGREEMENT NAME: ASHLEY FOREST	
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: AFU 64-18-41
2. NAME OF OPERATOR: VANTAGE ENERGY UINTA LI	LC		9. API NUMBER: 43013513250000
3. ADDRESS OF OPERATOR: 116 Inverness Drive East, S	Ste 107 , Englewood , CO, 80112	PHONE NUMBER: 303 386-8600 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0104 FSL 0470 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 18 Township: 06.0S Range: 04.0W Me	ridian: U	STATE: UTAH
11. CHECK	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start: 3/28/2013	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	New Construction
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
			APD EXTENSION
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	
	WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:
	COMPLETED OPERATIONS. Clearly show		
	nta LLC requests an extensi above referenced well for t		Approved by the Utah Division of
	time possible. Thank yo		Oil, Gas and Mining
	ame peccipie. Thank ye		Date: April 01, 2013
			Date: I was a
			By:
NAME (PLEASE PRINT) Andrea Gross	PHONE NUMB 303 941-0506	BER TITLE Project Coordinator	
SIGNATURE N/A		DATE 3/28/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013513250000

API: 43013513250000 **Well Name:** AFU 64-18-41

Location: 0104 FSL 0470 FWL QTR SWSW SEC 18 TWNP 060S RNG 040W MER U

Company Permit Issued to: VANTAGE ENERGY UINTA LLC

Date Original Permit Issued: 4/4/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Q	
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No 	
 Has there been any unit or other agreements put in place that could affect the permitting or operation of t proposed well? Yes No 	:hi
• Have there been any changes to the access route including ownership, or rightof- way, which could affect proposed location? (Yes (No	th
• Has the approved source of water for drilling changed? 🔵 Yes 🌘 No	
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No 	in
• Is bonding still in place, which covers this proposed well? 🌘 Yes 🔘 No	
Instruct. Andrea Cross Date: 2/29/2012	

Signature: Andrea Gross Date: 3/28/2013

Title: Project Coordinator Representing: VANTAGE ENERGY UINTA LLC

Vantage Energy Uinta LLC **AFU 64-18-41**

Surface: 104' FSL 470' FWL (SW/4 SW/4)
BHL: ±660' FSL ±660' FWL (SW/4 SW/4) within a 60' radius
Sec. 18 T6S R4W
Duchesne County, Utah
Federal Lease: UTU78210

NINE POINT DRILLING PROGRAM

(All drilling procedures will comply with BLM Onshore Oil and Gas Orders 1 and 2)

Vantage Energy Uinta LLC respectfully requests that all information regarding this well be kept CONFIDENTIAL.

This Application for Permit to Drill (APD) is being filed under the APD process as stated per Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents.

THIS APD ALSO SERVES AS THE NOTICE OF STAKING PER OSO #1.

This document was prepared using language and requirements consistent with those previously approved by BLM/USFS. This APD process has included the following:

- Consultation with the Surface Management Agency, United State Forest Service (USFS) to initiate the National Environmental Policy Act (NEPA) process for this specific wellsite along with other nearby proposed wellsites in September 8, 2008.
- Meeting with USFS at the wellsite on October 15, 2008, to review the topography, access and site specific surface use issues. Preliminary wellsite staking was initiated at this time.
- Authorization to conduct an archaeological survey was received from USFS on October 27, 2008, an archaeological survey was conducted shortly thereafter.
- Preliminary wellsite staking was completed on October 15, 2008. The wellsite was surveyed and staked at a location as preliminarily agreed to with USFS at 104' FSL 470' FWL (SW/4 SW/4) of Sec. 18 T6S R4W on December 15, 2008, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that is geologically and topographically acceptable.
- A wellsite review and NEPA planning meeting was held at the USFS office in Vernal, Utah on January 22, 2009. Attending were USFS, BLM, Petros Environmental (NEPA Contractor) and Vantage.
- The survey plats were finalized after the January 22, 2009 meeting and are as attached.

We understand that an onsite meeting with USFS/BLM representatives, and Vantage will be scheduled, at which time the specific concerns of USFS/BLM and Vantage will be discussed. Best efforts have been made to address specific concerns of the USFS.

Please contact Mr. John Moran, Senior Drilling Engineer, with Vantage at 303-386-8600, or Mr. David Banko, Banko, Permit Agent if there are any questions or concerns regarding this Drilling Program.

DRILLING PROGRAM AFU 64-18-41

Page 2

a) GEOLOGIC MARKERS

Anticipated tops of geologic markers are indicated in Table 1

Table 1 Estimated Tops of Geologic Markers

Formation	Vertical Depth	Measured Depth	Subsea Depth	Description
Green River	Surface	Surface	7,740'	Sandstone/siltstone/shale
Garden Gulch	3,225'	3,232'	4,530'	Sand and Siltstone
Douglas Creek	4,175'	4,187'	3,580'	Sandstone/siltstone/shale
Castle Peak	5,115'	5,133'	2,640'	Sandstone/siltstone/shale
Uteland Butte	5,605'	5,626	2,150'	Carbonate/shale/sandstone
Wasatch	5,815'	5,837	1,940'	Shale/sandstone
Price River	10,115'	10,145'	-2,360'	Shale/Sandstone
Blue Castle	11,955'	11,985'	-4,200'	Sandstone
Total Depth	11,960'	11,990'	-4,205'	TD +/- 5' into Blue Castle

Surface Elevation: 7,740' (Ground) 7,755' (Est. KB).

Proposed Total Vertical Depth: 11,960' Proposed Total Measured Depth: 11,990'

b) DEPTHS OF WATER AND MINERAL-BEARING ZONES

Potential water-bearing zones in the vicinity include the Wasatch and Green River formations (Robson and Banta, 1995. *Ground Water Atlas of the United States Segment 2*, Hydrologic Investigations Atlas 730-C, U.S. Geological Survey, Reston, VA). A review of data from the Utah Division of Water Rights indicated no permitted water wells within three miles of the proposed location. Utah Division of Oil, Gas, and Mining surface casing depth requirements will protect potential aquifers in the area.

The depths to potential water and/or mineral-bearing zones are indicated in **Table 2**.

Table 2: Principal Anticipated Water and Mineral-bearing Zones

Formation	Vertical Depth	Subsea	Potential Contents
Green River	Surface	7,740'	Water
Garden Gulch	3,225'	4,530'	Oil/Gas
Douglas Creek	4,175'	3,580'	Oil/Gas
Castle Peak	5,115'	2,640'	Oil/Gas
Uteland Butte	5,605'	2,150'	Oil/Gas
Wasatch	5,815'	1,940'	Oil/Gas
Price River	10,115'	-2,360'	Oil/Gas
Blue Castle	11,955'	-4,200'	Oil/Gas

c) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

The maximum anticipated surface pressure for this well is calculated to be **2,966 psi**. Therefore, rules for a 3,000 psi rated BOP and choke manifold system are applicable. A diagram of the proposed 3,000 psi rated BOP stack configuration is shown in **Fig. 1**.

DRILLING PROGRAM AFU 64-18-41

BOPs and choke manifold will be installed and pressure tested before drilling out from under surface casing (subsequent pressure tests will be performed whenever pressure seals are broken) and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. The annular preventer, pipe rams, and blind rams will be activated on each trip and Operator will conduct weekly BOP drills with the rig crew.

Ram type preventers and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. **Please see variance request at end of program for this section.**

Annular type preventers will be pressure tested to 50% of their rated working pressure. A Sundry Notice (Form 3160~5), along with a copy of BOP test report, shall be submitted to the USFS/BLM within 5 working days following the test. All casings strings will be pressure tested to 0.22psi/ft or 1,500psi, whichever is greater, not to exceed 70% of internal yield. Please see variance request at end of program for this section.

Casing shoe will be tested by drilling out from below the shoe and testing to the maximum expected mud weight as discussed in the mud program specifications below. Both manual and remote closing mechanisms will be installed on the BOP stack and will be readily available to the driller.

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with *Onshore Oil and Gas Order No. 2 (OSO #2)* for 3,000 psi systems. Irregardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOPs and retain 200 psi above precharge. The proposed pressure control equipment will meet or exceed standards specified in the Order OSO #2.

d) CASING PROGRAM

Page 3

Casing of quality equal to or better than that indicated in **Tables 3** and **4** will be used for this well. Actual casing used will be dependent on availability.

Table 3 Proposed Casing Program

Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight and Grade						
$0 - \pm 50'$	24"	16"	Optional Conductor – Only if Required						
0 – 1,500' 12-1/4" 9-5/8"		9-5/8"	36# J55 ST&C, API New Pipe						
0 – 11,990'	7-7/8"	4-1/2"	11.6# HCP-110 LT&C, API New Pipe						

DRILLING PROGRAM AFU 64-18-41

Page 4

Table 4:	Proposed	Casing	Specifications an	nd Design	Safety Factors
----------	-----------------	--------	-------------------	-----------	----------------

Size	Collapse (psi)	Burst (psi)	Body Strength (1,000 lbs.)	Joint Strength (1,000 lbs.)	Thread	*,	*Safety Facto	
						Burst	Collapse	Tension
						Design	Design	Design
						(1.2)	(1.0)	(1.4)
16"			ructural and to air drilling su		Weld	NA	NA	NA
9-5/8"	2,020	3,520	564	394	ST&C	1.42	6.27	4.17
36# J55	2,020	3,320	304	394	Siac	1.42	0.27	4.1/
4-1/2"								
11.6#	8,650	10,690	367	279	LT&C	1.25	1.51	1.63
HCP-110								

^{*}Safety Factor Calculation Assumptions:

Surface Casing:

Burst Load: Assumes greater of MASP (maximum anticipated surface pressure) exposure during a worse case kick scenario while drilling at total depth, with mud/gas mixture whose gradient is 0.22 psi/ft. OR, minimum required casing test pressure.

MASP

```
Load = (Formation Gradient -0.22 \text{ psi/ft}) * Total Depth, TVD
= (0.468 \text{ psi/ft} - 0.22 \text{ psi/ft}) * 11,575 \text{ ft}.
= 2,871 \text{ psi}
```

TEST PRESSURE

```
Load = Greater of 1500 psig or 0.70*3520 = 2464 psig or MASP = 2871 psig SF Burst = 3,520 psi / 2,871 psi = 1.22
```

Collapse Load: Assumes worse case loading of evacuated casing during cementing process.

Cement density = 12.2 ppg (wtd avg) Load = 12.2 ppg * 0.052 * 1500 ft = 952 psi SF Collapse = 2020 psi / 952 psi = 2.12

Tension Load: Assumes air weight at total depth + 100,000 lbs overpull design factor.

Load = (36 lbs/ft * 1500 ft) + 100,000 lbs overpull = 154,000 lbs

SF Tension = 394,000 lbs / 154,000 lbs = 2.55

DRILLING PROGRAM AFU 64-18-41

Page 5

Test Pressure = Production Casing

Burst Load: Assumes maximum load applied during the hydraulic fracture stimulations. It is Vantage Energy's policy not to exceed 80% rating of the production casing during the stimulation treatment. The 80% rating factor will also be the casing test pressure.

```
Load = 10690 psi * 0.80
= 8552 psi
SF Burst = 10690 psi / 8552 psi = 1.25
```

Collapse Load: Assumes worse case loading applied during the production cycle, with evacuated casing, and normally pressured formation gradient applied externally.

```
Load = 0.433 psi/ft * 11575 ft
= 5012 psi
SF Collapse = 8650 psi / 5012 psi = 1.72
```

Tension Load: Assumes buoyed weight of casing at total depth + 80,000 lbs overpull design factor.

```
Load = [11.6 lbs/ft * 11575 ft* ((65.5 – 10.0) / 65.5)] + 80,000 lbs
= 113,771 lbs + 80,000 lbs
= 193,771 lbs
```

SF Tension = 279,000 lbs / 193,771 lbs = 1.44

DRILLING PROGRAM AFU 64-18-41

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e) **CEMENT PROGRAM**

Table 5: Proposed Cement Program

Measured Depth	Hole Diameter	Casing Diameter	Cement
$0' - \pm 50'$	24"	16"	Optional structural conductor if required: Grout with approximately 4 cubic yards of redi-mix back to surface (includes 100% excess)
			TOC: Surface (Top-off per visual observation)
0' – 1500'	12 1/4"	9 5/8"	Lead System (1,000' – Surface) 216 sks "Lite" slurry + 1/4 lb/sk celloflake.
			Density: 11.0 ppg Yield: 2.90 cuft/sk Water: 15.45 gal/sk Excess: 100%
			Tail System (1,500' – 1,000') + 40' Shoe Joint 205 sks 50:50 (Class G: Poz) + 2% gel + 2% CaCl ₂ Density: 14.2 ppg Yield: 1.61 cuft/sk Water: 5.75 gal/sk Excess: 100%
			TOC: Surface (Top-off per visual observation)
0' - 11,990'	7 7/8"	4 1/2"	Lead System (9,500' - 2,500') 543 sks Type "V" + 16% Gel + 10 lbs/sk gilsonite + 3% Salt + ½ lb/sk celloflake Density: 11.0 ppg Yield: 3.82 cuft/sk Water: 23.0 gal/sk *Excess: 30%
			Tail System (11,575' – 9,500') + 40' Shoe Joint 490 sks 50:50 (Class G:Poz) + 2% gel + 10% salt + 1/4 lb/sk celloflake
			Density: 14.2 ppg Yield: 1.26 cuft/sk Water: 5.75 gal/sk *Excess: 30%

^{*}Note: The production hole cement volume will be determined by the caliper log, using caliper volume + 15% excess factor.

DRILLING PROGRAM AFU 64-18-41

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f) MUD PROGRAM

The mud program for the proposed well is indicated in **Table 6.**

Table 6 Proposed Mud Program

Interval (feet)	Mud Weight (lbs/gallon)	Viscosity (secs/qt)	Fluid Loss (ccs/30 min)	Mud Type				
$0 - \pm 50$	NA	NA	NA	NA				
Set optional 14" conductor with bucket rig								
50' - 1500'±	50' - 1500'± NA		NA N/C					
	Run/o	cement 9 5/8" surface	casing					
1500'± - TD	8.6 – 10.0	28 - 42	< 10	KCL Water / PHPA / DAP				
	Run Logs – Run/cement 4 1/2" production casing							

Surface Hole Comments: Spud with "spudder rig" and air drill surface hole misting as may be required to assist with cuttings removal. Report any water encountered to the appropriate agencies. **Please see variance requests for this section.**

Production Hole Comments: Dump spud mud to reserve pit. Drill out surface casing with fresh water adding 6 ppb DAP (Diammonium Phosphate) for shale inhibition and corrosion control. Circulate the reserve pit and flocculate out drill solids. Use pre-hydrated gel and PHPA polymer mud sweeps to assist with hole cleaning. At approximately 3,600' "mud up" and "close in" the fluid system to a 2-3% KCL base fluid. Use PHPA PAC and lignite for filtration control. Maintain fluid system through potential production zones to TD. Should seepage losses be experienced, control with LCM sweeps consisting of calcium carbonate, sawdust, cedar fiber, or mica.

Sufficient mud materials will be maintained on location to adequately maintain mud properties and contain any well kicks. Monitoring equipment will be installed on site to detect changes in mud volume.

g) LOGGING, CORING, AND TESTING PROGRAM

The proposed logging program is indicated in **Table 7**.

Table 7 Proposed Logging Program

Log Suites	Depth Range	Remarks
DIL-SP-LD-CN-GR	Surface Casing to TD + GR to surface	Standard "triple combo" equivalent with resistivity-spontaneous potential, lithodensity, compensated neutron, gamma ray, and caliper
Dipole Sonic	± 9,700' to TD	Optional – Operator's discretion Rock property data
Rotary Sidewall Cores	± 9,972' to TD	Optional – Operator's discretion PP/Lithology data (perm-porosity)

No coring or drill stem tests are planned. Mud logging unit will be operational from 200 feet above the Douglas Creek through total depth. Cuttings will be sampled every 20-30 feet.

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Prospective zones from the Douglas Creek formation through total depth will be perforated, tested, and potentially acid-washed. It is anticipated that multi-stage hydraulic fracture stimulations of the reservoir will be required.

h) ANTICIPATED PRESSURES AND HAZARDS

No abnormal pressures are anticipated. Pressure gradient in the Green River and Wasatch sequence is expected to be sub-normal pressured to less than 0.44 psi/ft, and then transition to slightly over pressure in the Price River sequence.

Estimated BHP Douglas Creek (4,175') 1,837 psi Estimated BHP Wasatch (5,815') 2,559 psi Estimated BHP Total Depth (11,960') 5,262 psi Hydrostatic head of gas/mud 0.22 psi/ft.

Maximum design surface pressure 0.468 - 0.22 psi/ft x 11,960 ft = 2,966 psi

No H2S zones are anticipated. No abnormal lost circulation zones are anticipated.

i) DIRECTIONAL PROGRAM

This is a directional well. Please see attached directional profile.

j) OTHER INFORMATION

Contact Information and Personnel Mailing Address Vantage Energy Uinta LLC 116 Inverness Drive, Suite 107 Englewood, CO 80112

Main Number: 303-386-8600 Fax Number: 303-386-8700

Drilling Operations: John Moran Office Direct: 303-386-8610 Fax Direct: 303-386-8710 Mobile: 303-249-2234

E-Mail: John.Moran@VantageEnergy.com

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AFU 64-18-41

Completion/Production Operations: Ed Long

Office Direct: 303-386-8639 Fax Direct: 303-386-8739 Mobile: 720-635-2125

E-Mail: Ed.Long@VantageEnergy.com

Geologist: Andrea Steinle Office Direct: 303-386-8632 Fax Direct: 303-386-8732 Mobile: 303-408-0994

E-Mail: Andrea.Steinle@VantageEnergy.com

Landman: Michael Holland Office Direct: 303-386-8638 Fax Direct: 303-386-8738 Mobile: 303-396-3443

E-Mail: Michael.Holland@VantageEnergy.com

START DATE AND DURATION OF ACTIVITIES

Anticipated start date

The drilling operations will commence as soon as possible following contracting of drilling rig and in compliance with restrictions imposed by lease stipulations and/or Conditions of Approval. It is therefore anticipated the access upgrade work and location work would commence on or about August 1, 2012, with a target spud date of August 15, 2012. It is anticipated the drilling phase will require 25 days.

Completion

The well pad will be of sufficient size to accommodate all required completion equipment and activities. It is anticipated select intervals will be perforated, stimulated and adequately tested for the presence of commercial hydrocarbons prior to moving uphole to the next prospective test interval. As such, it is anticipated the completion phase will require 45 - 60 days.

The total project duration is therefore estimated to be <u>70 - 85 days</u>, and therefore anticipated to be concluded on or about November 10, 2012

A string of 2 3/8 inch 4.7 lb/ft. N-80 tubing would be run as the production tubing. A Sundry Notice will be submitted should there be any changes to the proposed completion program.

VARIANCE REQUESTS

1. Operator requests a variance to *Onshore Oil and Gas Order 2, Item E*, regulations for air/gas drilling operations. Operator plans to drill the surface hole to a depth of 1,500', with a "spud rig", in a separate operation from the drilling rig. No hydrocarbons are present in the surface hole section and therefore, "gas" drilling is not applicable to this hole section. Therefore, for the purpose only of drilling the surface hole with an air rig, Operator requests the following four (4) variances from the order that states "...the following equipment shall be in place and operational

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AFU 64-18-41

during air/gas drilling: (1) properly lubricated and maintained rotating head; (2) blooie line discharge one hundred feet (100') from wellbore; (3) automatic igniter or continuous pilot light on the blooie line; and (4) compressor located...a minimum of 100 feet (100') from the wellbore".

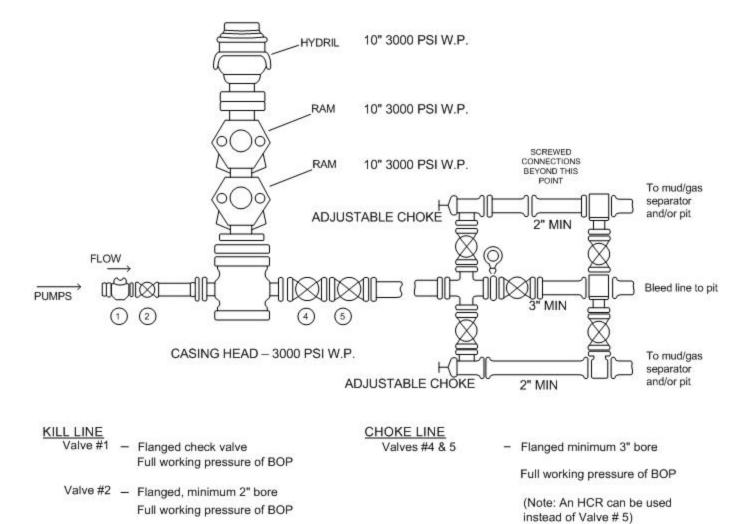
- a. Operator requests approval to use a diverter bowl rather then a rotating head as specified in the Order. The diverter bowl forces air and cuttings to the reserve pit and is only used to drill the surface hole (to a total depth of 1,500'). The surface hole section is non-hydrocarbon bearing, and therefore formation pressures will not require a pressure rated rotating head. Should water flows be encountered, they will be reported to the appropriate agencies.
- b. Operator requests approval to use a blooie line with a discharge length of less than the required one hundred feet (100') from the wellbore in order to minimize the well pad size, and to direct the cuttings into the reserve pit. The wellbore is to be located approximately thirty-five feet (35') from the reserve pit which is to be seventy feet (70') wide. Therefore, a one hundred foot (100') blooie line would blow cuttings across the reserve pit. The requested length of blooie line to drill the surface hole is thirty-five feet (35'). This is the distance necessary to reach the edge of the reserve pit, and to therefore direct cuttings into the reserve pit in a safe and efficient manner.
- c. Operator requests approval to operate without an automatic igniter or continuous pilot light on the blooic line. The surface hole section is non-hydrocarbon bearing and therefore does not require a continuous ignition source.

Operator requests approval to use a trailer mounted air compressor located less than one hundred feet (100') from the wellbore in order to minimize the location size. The compressor will be located fifty feet (50') from the wellbore in an opposite direction of the blooie line. The compressor has the following safety features: (1) shut-off valve on the trailer located approximately fifteen feet (15') from the air rig; (2) pressure relief valve on the compressor; and (3) spark arrestors on the motors. The compressor will only be used for the drilling of the surface hole, which is non-hydrocarbon bearing.

MINIMUM BOP Requirements

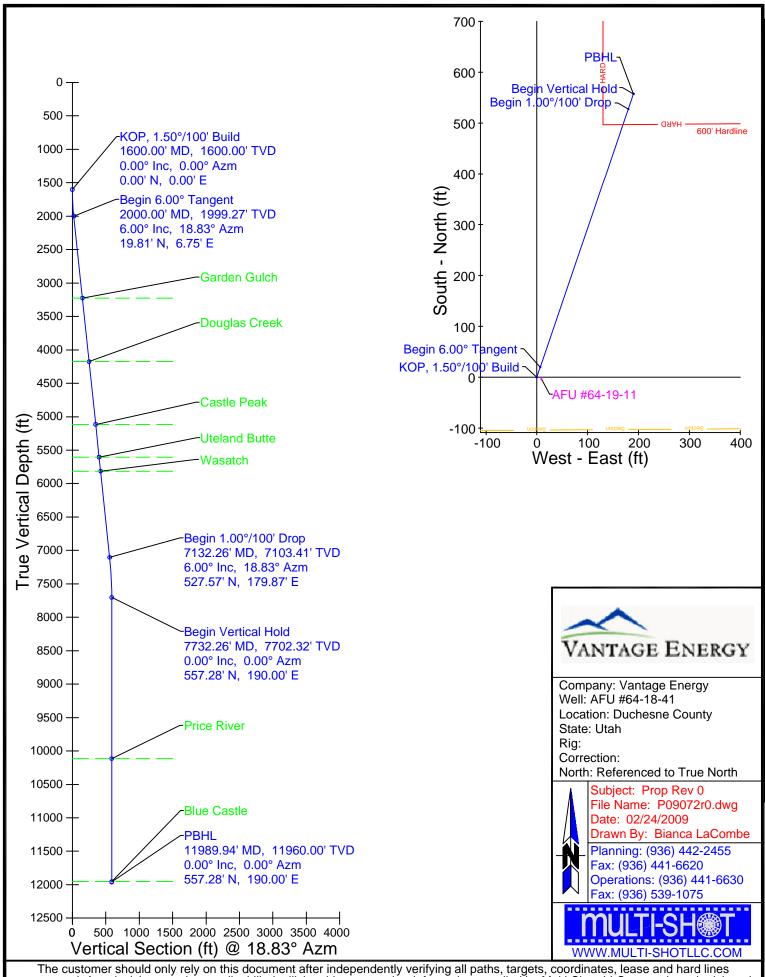
3000 PSI W.P.

FILL LINE ABOVE THE UPPERMOST PREVENTER



GENERAL RULES AND RECOMMENDATIONS

All lines to manifold are to be at right angles (90 deg.). No 45 deg. angles are to be used. Blind flanges are to be used for blanking. All studs and nuts are to be installed on all flanges.



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

Job Number: P09-072

Company: Vantage Energy Lease/Well: AFU #64-18-41

Location: Duchesne County

Rig Name:

RKB:

G.L. or M.S.L.: 7740'

State/Country: Utah

Declination:

Grid: Referenced to True North

File name: F:\WELLPL~1\2009\P09070'S\P09072\09072.SVY

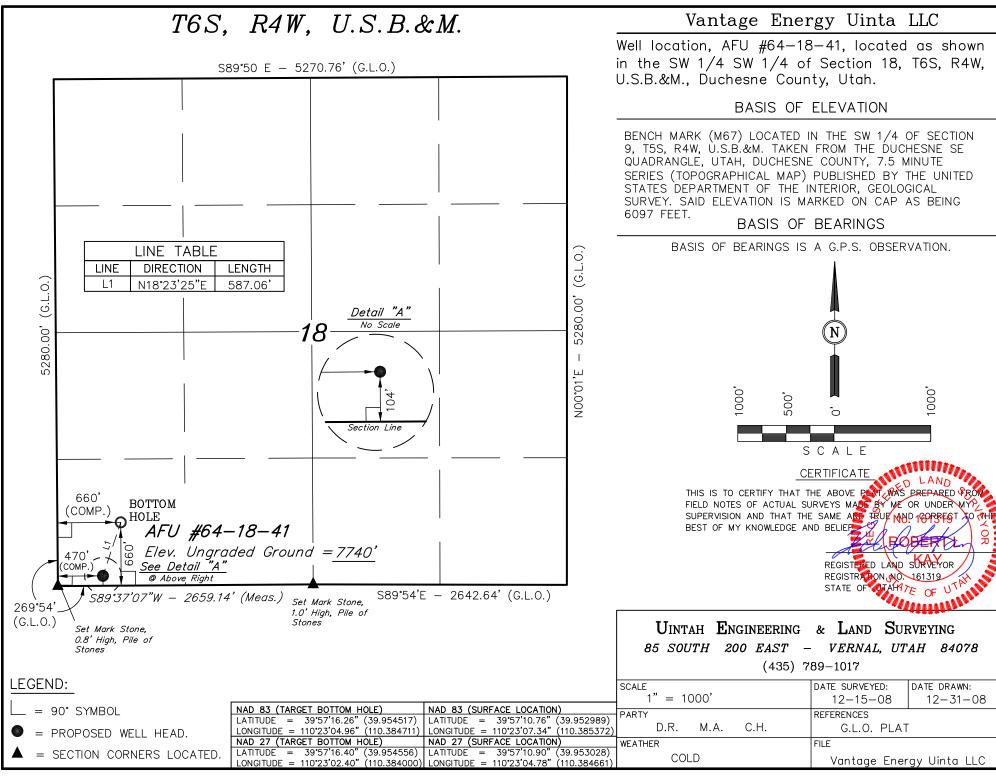
Date/Time: 24-Feb-09 / 11:15 Curve Name: Prop Rev 0

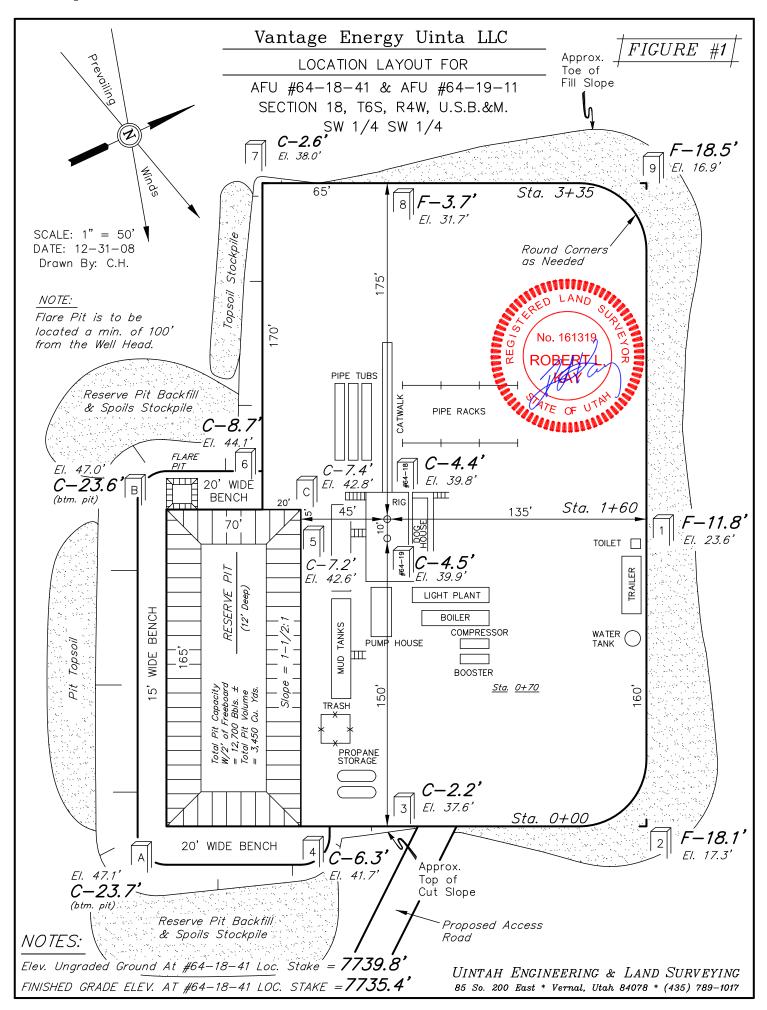
WINSERVE PROPOSAL REPORT Minimum Curvature Method Vertical Section Plane 18.83 Vertical Section Referenced to Wellhead

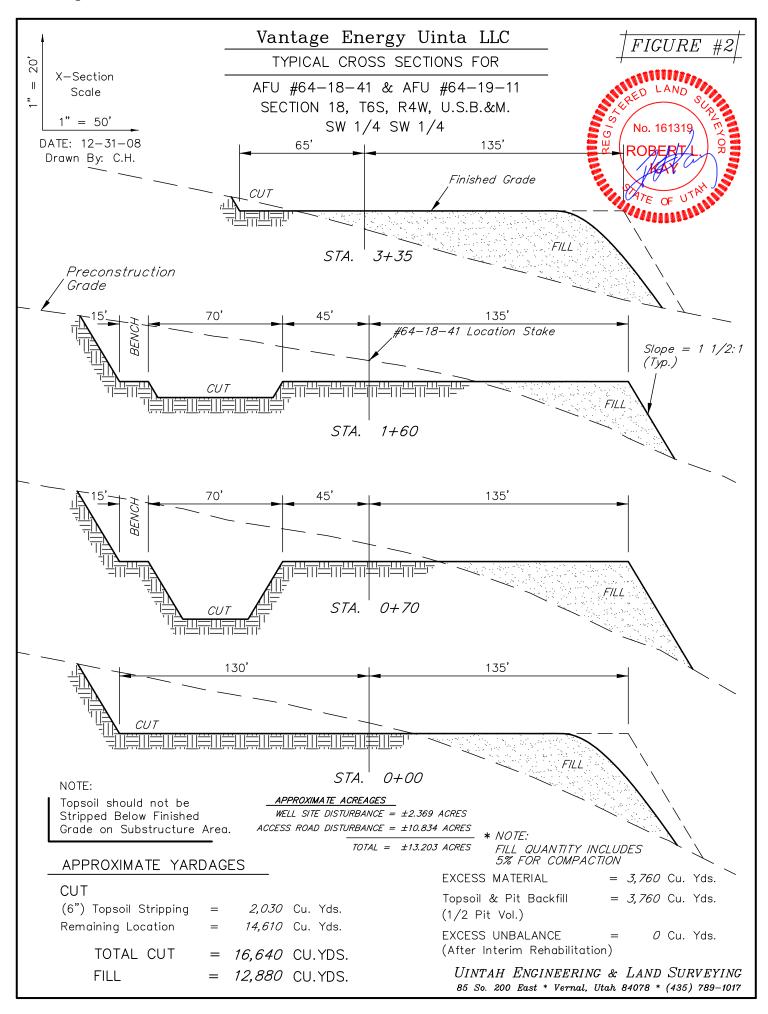
Rectangular Coordinates Referenced to Wellhead

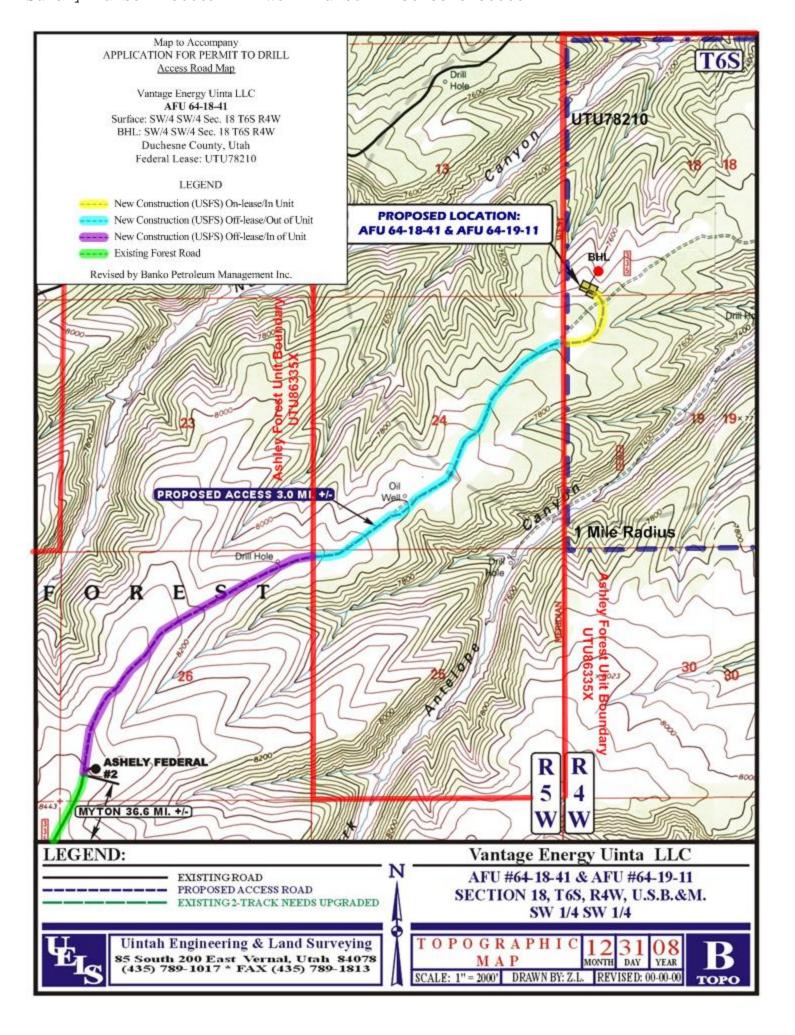
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O Distance FT	S U R E Direction Deg	Dogleg Severity Deg/100
KOP, 1.50°/100' Build									
1600.00	.00	.00	1600.00	.00	.00	.00	.00	.00	.00
1700.00	1.50	18.83	1699.99	1.24	.42	1.31	1.31	18.83	1.50
1800.00	3.00	18.83	1799.91	4.95	1.69	5.23	5.23	18.83	1.50
1900.00	4.50	18.83	1899.69	11.14	3.80	11.77	11.77	18.83	1.50
Begin 6.00	0° Tangen	nt							
2000.00	6.00	18.83	1999.27	19.81	6.75	20.92	20.92	18.83	1.50
Garden G	ulch								
3232.48	6.00	18.83	3225.00	141.74	48.33	149.76	149.76	18.83	.00
Douglas C	Creek								
4187.72	6.00	18.83	4175.00	236.25	80.55	249.60	249.60	18.83	.00
Castle Pe	ak								
5132.89	6.00	18.83	5115.00	329.76	112.43	348.40	348.40	18.83	.00
Uteland B	utte								
5625.59	6.00	18.83	5605.00	378.51	129.05	399.90	399.90	18.83	.00
Wasatch	Wasatch								
5836.75	6.00	18.83	5815.00	399.40	136.17	421.98	421.98	18.83	.00
Begin 1.00	0°/100' Dr								
7132.26	6.00	18.83	7103.41	527.57	179.87	557.39	557.39	18.83	.00

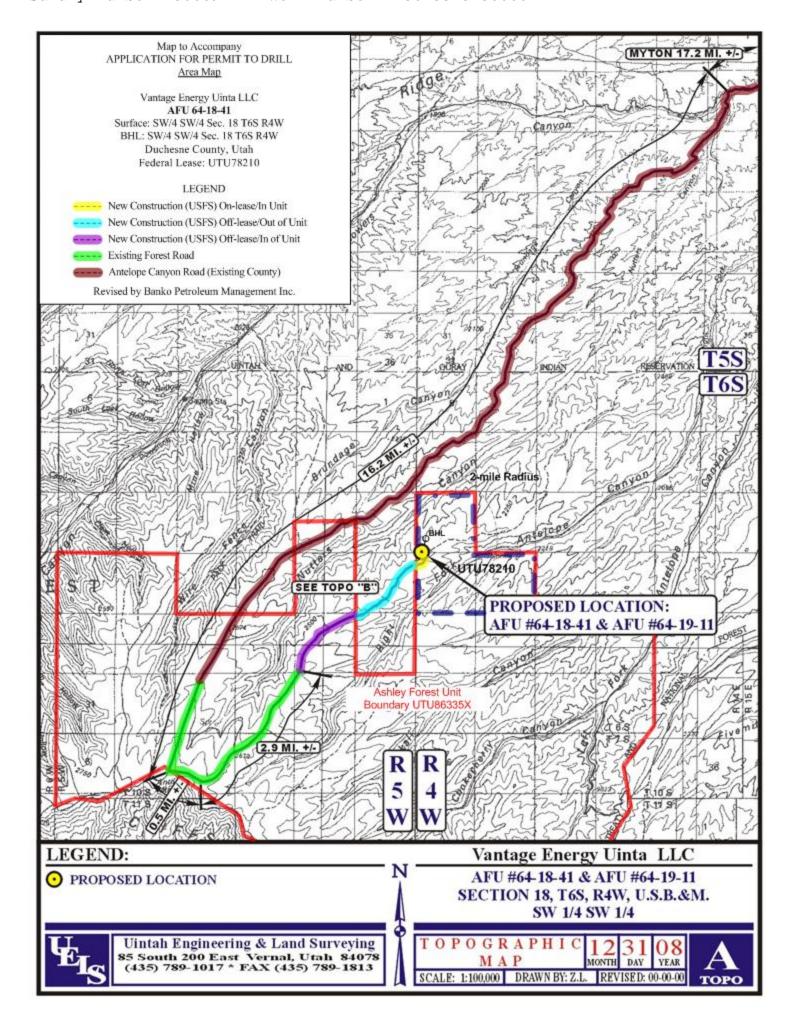
Measured	Incl	Drift	True			Vertical	CLOS	SURE	Dogleg
Depth	Angle	Direction	Vertical	N-S	E-W	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth	FT	FT	FT	FT	Deg	Deg/100
7232.26	5.00	18.83	7202.95	536.65	182.97	566.98	566.98	18.83	1.00
7332.26	4.00	18.83	7302.64	544.07	185.50	574.82	574.82	18.83	1.00
7432.26	3.00	18.83	7402.45	549.85	187.47	580.93	580.93	18.83	1.00
7532.26	2.00	18.83	7502.36	553.98	188.87	585.29	585.29	18.83	1.00
7632.26	1.00	18.83	7602.32	556.46	189.72	587.91	587.91	18.83	1.00
Begin Ver	tical Hold								
7732.26	.00	.00	7702.32	557.28	190.00	588.78	588.78	18.83	1.00
Price Rive	er								
10144.94	.00	.00	10115.00	557.28	190.00	588.78	588.78	18.83	.00
Blue Cast	le								
11984.94	.00	.00	11955.00	557.28	190.00	588.78	588.78	18.83	.00
PBHL									
11989.94	.00	.00	11960.00	557.28	190.00	588.78	588.78	18.83	.01

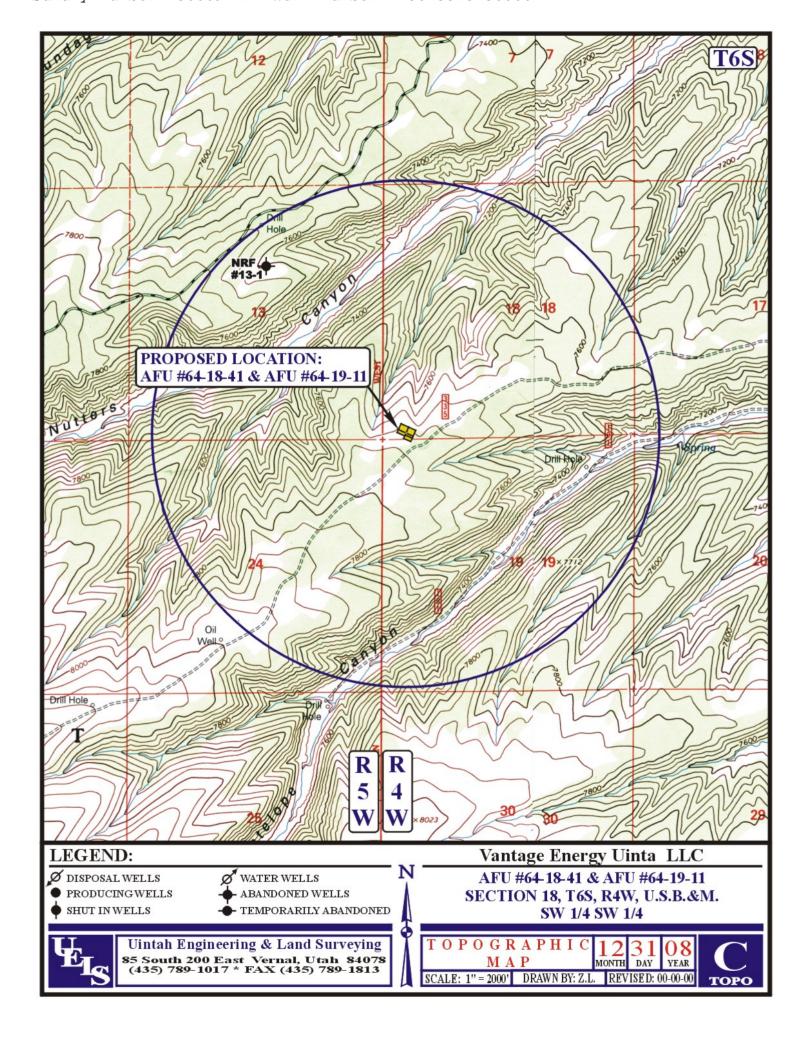














Ms. Diana Mason State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114

March 28, 2013

Re: <u>Directional Drilling R649-3-11</u>

Vantage Energy Uinta, LLC

AFU 64-18-41

SHL: 104' FSL 470' FWL (SW/4 SW/4)

BHL: ±660' FSL ±660' FWL (SW/4 SW/4) within a 60' radius

Sec. 18 T6S R4W Duchesne County, Utah

Surface: Federal

Mineral: Federal Mineral Lease UTU78210

Dear Ms. Mason:

Pursuant to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well on February 24, 2009, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11, pertaining to the Exception of Location and Sitting of Wells.

- AFU 64-18-41 is an exploratory well located within the Ashley Forest Federal Unit No. UTU86335X.
- Vantage is permitting this well as stipulated by the United States Forest Service as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Vantage will be better able to utilize any proposed roads and or pipelines in the area.
- Vantage is the unit operator of the Ashley Forest Draw Federal Unit. As it pertains to all depths from the surface to the base of the Wasatch Formation, Vantage certifies it is the sole working interest owner within 460 feet of the entire directional well bore and within Section 18 (federal oil and gas lease UTU 78210). As to all depths deeper than the Base of the Wasatch Formation, the sole working interest owner is Exxon Mobil Corporation (XOM). Vantage and XOM have entered into a mutually executed Exploration Agreement that provides for the possible development of those deeper depths.

Utah Division Oil, Gas & Mining March 28, 2013

Page 2 of 2

Based on the above stated information, Vantage requests the permit be granted pursuant to the terms and conditions of Rule R649-3-11.

Sincerely,

VANTAGE ENERGY UINTA, LLC

Michael Holland Senior Landman

Cc: mth, jm, dv, tt, kh, su, David Banko, Kim Rodell, Andrea Gross (Banko Petroleum Management)

Sundry Number: 62677 API Well Number: 43013513250000

	FORM 9				
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU78210				
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: ASHLEY FOREST				
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: AFU 64-18-41				
2. NAME OF OPERATOR: VANTAGE ENERGY UINTA L	LC		9. API NUMBER: 43013513250000		
3. ADDRESS OF OPERATOR: 116 Inverness Drive East, \$	Ste 107 , Englewood , CO, 80112	PHONE NUMBER: 303 386-8600 Ext	9. FIELD and POOL or WILDCAT: SOWERS CANYON		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0104 FSL 0470 FWL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: SWSW Section:	an: U	STATE: UTAH			
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
,	ACIDIZE	ALTER CASING	CASING REPAIR		
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
5/15/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT	DEEPEN [FRACTURE TREAT	NEW CONSTRUCTION		
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION		
Report Date:		7			
	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
Vantage Energy Uir	COMPLETED OPERATIONS. Clearly show all nta LLC requests an extensior the maximum amount of time	to the Application for	Approved by the UtahilD20is201 5f Oil, Gas and Mining		
			Date:		
			By: Bally yell		
NAME (PLEASE PRINT) Kimberly Rodell	PHONE NUMBE 303 941-0506	R TITLE President			
SIGNATURE N/A		DATE 4/16/2015			

Sundry Number: 62677 API Well Number: 43013513250000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013513250000

API: 43013513250000 Well Name: AFU 64-18-41

Location: 0104 FSL 0470 FWL QTR SWSW SEC 18 TWNP 060S RNG 040W MER U

Company Permit Issued to: VANTAGE ENERGY UINTA LLC

Date Original Permit Issued: 4/4/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? Yes No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Kimberly Rodell Date: 4/17/2015

Sig

Representing: VANTAGE ENERGY UINTA LLC Title: President



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 7, 2016

Vantage Energy Uinta LLC. 116 Inverness Drive East, Ste 107 Englewood, CO 80112

Re:

APDs Rescinded for Vantage Energy Uinta, LLC, Duchesne County

Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of June 7, 2016.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

cc:

Well File

Bureau of Land Management, Vernal



Wild Horse 1-11	43-013-51305
AFU 64-18-41	43-013-51325
AFU 64-19-11	43-013-51327
Quitchampau 1-15	43-013-51330
AFU 65-28-32	43-013-51324